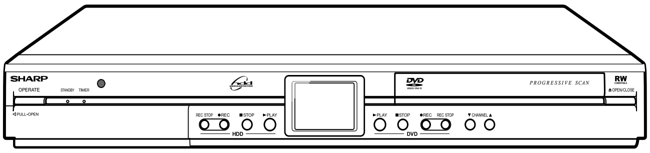
1st Edition

SHARP SERVICE MANUAL



DVD RECORDER WITH HARD DISC

DVD
COMPACT disc DIGITAL VIDEO
COMPACT disc DIGITAL AUDIO
DOLBY DIGITAL STEREO CREATOR
SPATIALIZER® N-2-2™
dts DIGITAL OUT
GUIDE plus+® GEMSTAR
SHOWVIEW®
PAL

· The region number for this Recorder is **2.**

DV-HR400S/H
DV-HR450S/H
MODELS DV-HR480S/H

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified be used.

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SHARP CORPORATION

1. IMPORTANT SERVICE NOTES

Note:
This Recorder can be used only where the power supply is AC 220V-240V, 50Hz. It cannot be used elsewhere.

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

AS THE LASER BEAM USED IN THIS RECORDER IS HARMFUL TO THE EYES, DO NOT ATTEMPT TO DISASSEMBLE THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

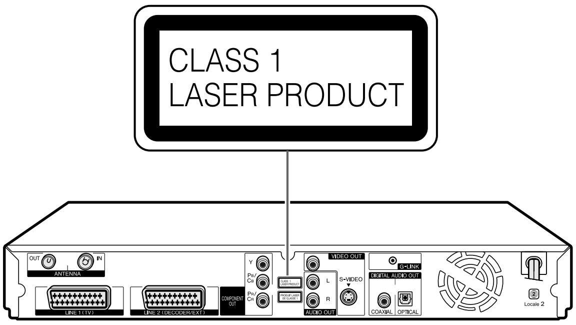
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

Laser Diode Properties
Material: DVD: AlGaInP
CD: GaAlAs
Wave length: DVD: 658nm
CD: 784nm
Emission Duration: Pulse
Laser output: Max. DVD: 100mW
CD: 255mW

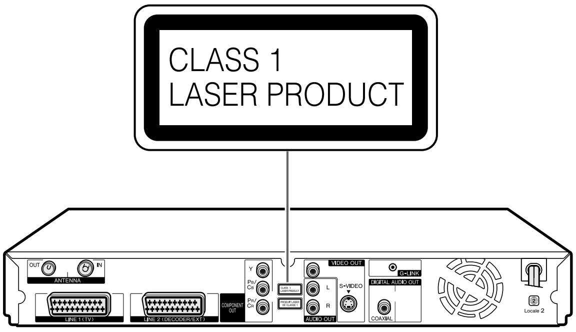
Power Cord Protection
To avoid any malfunctions of the Recorder, and to protect against electric shock, fire or personal injury, please observe the following.

- Hold the plug firmly when connecting or disconnecting the AC power cord.
- Keep the AC power cord away from heating appliances.
- Never put any heavy object on the AC power cord.
- Do not attempt to repair or reconstruct the AC power cord in any way.
- This Recorder is classified as a CLASS 1 LASER product.
- The CLASS 1 LASER PRODUCT label is located on the rear cover.
- This product contains a low power laser device. To ensure continued safety do not remove any cover or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

DV-HR480S/DV-HR450S


CLASS 1
LASER PRODUCT
OUT
IN
ANTENNA
LINE 1 (TV)
LINE 2 (DECODER/EXT)
COMPONENT OUT
VIDEO OUT
S-VIDEO
AUDIO OUT
G-LINK
DIGITAL AUDIO OUT
COAXIAL
OPTICAL
Locale 2

DV-HR400S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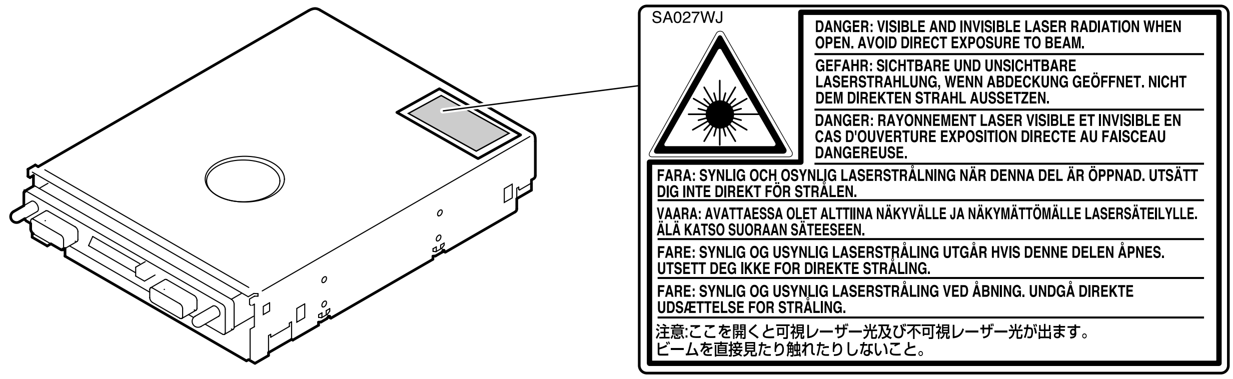


SA027WJ

DANGER: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.

GEFAHR: SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM DIREKTEN STRAHL AUSSETZEN.

DANGER: RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE EXPOSITION DIRECTE AU FAISCEAU DANGEREUSE.

FARA: SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. UTSÄTT DIG INTE DIREKT FÖR STRÅLEN.

VAARA: AVATTAESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SUORAAN SÄTEESEEN.

FARE: SYNLIG OG USYNLIG LASERSTRÅLING UTGÅR HVIS DENNE DELEN ÅPNES. UTSETT DEG IKKE FOR DIREKTE STRÅLING.

FARE: SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ DIREKTE UDSÆTTELSE FOR STRÅLING.

注意:ここを開くと可視レーザー光及び不可視レーザー光が出ます。
ビームを直接見たり触れたりしないこと。

Precautions for using lead-free solder

1 Employing lead-free solder

"Writer Main PWB,LCD PWB,Sub PWB,G-Link PWB,Power PWB,Operation (L) PWB,Operation (R) PWB,UV Tuner PWB,Main PWB" of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

LF a
Sn-Ag-Cu

Indicates lead-free solder of tin, silver and copper.

LF a/a
Sn-Ag-Cu

Indicates lead-free solder of tin, silver and copper.

2 Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldening bit, contact our service station or service ranch in your area.

3 Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C, and as it has poor solder wettabillty, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be excoeded, remove the bit from the PWB as soon as you conurm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to tum on and off the power of the bit as required.

if a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Becareful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Part No.	★	Description	Code
ZHNDAi123250E	J	ϕ0.3mm 250g(1roll)	BL
ZHNDAi126500E	J	ϕ0.6mm 500g(1roll)	BK
ZHNDAi12801KE	J	ϕ1.0mm 1kg(1roll)	BM

2. FEATURES

The DV-HR480S/DV-HR450S/DV-HR400S DVD Recorder with Hard Disc realises easy programming with the GUIDE Plus+ system, and up to 48x high-speed dubbing.

1 "DVD Multi-Play" can play 5 types of recordable DVD discs

- Besides DVD-RW, DVD-R, DVD+RW [*1] and DVD+R [*1] discs, it can also play DVD-RAM [*2] discs. Even a DVD borrowed from a friend can be played no matter what format it uses.

[*1] Only the discs recorded in a video format and finalised can be played.

[*2] DVD-RAM Version 2 discs with a 4.7GB or 9.6GB capacity which have been recorded using the VR system of another DVD recorder. (To play a DVD-RAM disc, remove the disc from its cartridge.)

2 Support for high-speed dubbing[*3] at up to 48x speed from the HDD to DVD makes creating a video library easy

① **High speed dubbing[*3]**
Enables high speed dubbing from hard disc to DVD so you can enjoy creating your own video library.

② **Rate conversion dubbing**
The mode can be selected from 32 levels just like recording mode. This enables recording at the optimal picture quality, given the remaining empty space on the disc.

③ **Exact dubbing**
This automatically adjusts to the optimal record mode so that the material is dubbed exactly into the remaining area on the disc.

[*3] To perform high-speed dubbing, you must use discs conforming to Ver.1.1/2x, 1.2/2x or 1.2/4x for DVD-RW, or Ver.2.0/4x or 2.0/8x for DVD-R. When using DVD-RW Ver.1.1/2x and DVD-R Ver.2.0/4x, the maximum dubbing speeds will be approximately 12x and 24x, respectively.

3 Progressive scanning playback

- Using Component Video Output, you can enjoy high quality, high-density video with no jagged contours and no flicker.

4 The GUIDE Plus+ system

- The GUIDE Plus+® [*4] system is an interactive on-screen television programming guide integrated into the Recorder. The system is available at no monthly charge and offers programme listings for all major channels received in your home, one-touch recording, search by genre, recommendations according to your profile and more. In this new era of ever-increasing number of channels, the GUIDE Plus+ system offers television viewers a convenient way to find out what's on right now or in the next week, by channel or by genre. The GUIDE Plus+ system also allows viewers to automatically set their recording selections quickly and easily. The TV listings information displayed in the GUIDE Plus+ system is obtained directly from sources in the broadcasting industry. This information is received and processed by Gemstar-TV Guide and "broadcasted" via so called "Host Channels" directly to the Recorder.
- You can also programme your Recorder for timer recording simply by inputting the ShowView® [*4] programming number.

[*4] GUIDE Plus+, ShowView, VIDEO Plus+, G-LINK are (1) registered trademarks or trademarks of, (2) manufactured under license from and (3) subject of various international patents and patent applications owned by, or licensed to, Gemstar-TV Guide International, Inc. and/or its related affiliates.

5 Built-in DV terminal for high quality dubbing from digital video camcorder (DV-HR480S/DV-HR450S only)

- You can connect to a digital video camcorder with i.LINK to perform high quality digital video dubbing. You can also operate camcorder playback functions such as rewind, fast forward, and stop from the control panel.

6 High picture quality design (Used in all hard disc and DVD modes)

① **Progressive scanning playback**
High-quality, high-density video with no jagged contours and no flicker.

② **VBR (Variable Bit Rate) recording**
Constantly maintains optimal high picture quality by varying the bit rate (amount of video data) for each scene depending on the video content (e.g. whether movement is fast or slow).

③ **Improved play noise reduction**
3-dimensional DIGITAL NOISE REDUCTION: This eliminates the noise contained in the brightness signals and colour signals, and minimizes the rough textures of images.
BLOCK NOISE REDUCTION: This cuts the amount of block noise seen in the fast-moving images in sports programmes, for example.
MOSQUITO NOISE REDUCTION: This reduces the flicker noise that occurs in areas such as the outlines of images.

④ **Linear PCM recording**
Linear PCM recording with high sound quality is supported [*5] to reproduce music programmes and other such programmes with a clear sound quality.

[*5] Supports only the XP mode.

7 Speed viewing and speed listening (Rapid play)

- Plays a disc at 1.5 times faster than normal speed with sound. It lets you check lengthy recorded programmes quickly and easily.

8 32-step manual rate video recording

- The video recording mode can be selected form 32 steps, including four basic steps of high image quality (XP), standard (SP), x2 (LP) and x3 (EP) . You may choose one from these steps for optimal image quality depending on the amount of free memory remaining on the disc.

9 Comprehensive editing functions

(Only titles recorded on the hard disc or in VR mode on DVD-RW can be edited.)

① **Play list edit**
This lets you gather only the needed parts (i.e. a "Play List") from a recorded original video (title). You can rearrange scenes and combine them with other scenes, or rearrange titles. This is convenient when you want to dub and save only the necessary scenes and titles.

② **Chapter edit**
This lets you divide a title into chapter units during recording/playback or using the edit screen. After dividing, a list of recordings (thumbnails) can be displayed in chapter units, so you can copy, erase or dub to the play list in chapter units.

③ **Erase Scene**
This lets you erase unnecessary scenes. This is convenient when you want to cut out the commercials in a recorded programme before dubbing.

④ **Batch erasing of titles/chapters**
Titles and chapters which become unnecessary after editing can be batch erased by selecting them from the list of recordings (thumbnails).

⑤ **Edit undo function**[*6]
If you mistakenly erase data during editing, this function lets you restore it to its immediately preceding state, just like "Undo" on a PC, so you can edit worry-free.

[*6] Edit undo can only be used once. It only works when "UNDO" is assigned to a coloured button (yellow) displayed on the screen.

10 "Time Shift Viewing", "Chasing Playback" and "Simultaneous Recording/Playback" —functions you can only get with a hard disc

① **Time shift viewing**
While you are watching a programme, the phone rings.... At times like this, you can pause the programme being broadcast at the press of a button, and then watch the rest of the programme at your leisure after you finish your phone call.

② **Chasing playback**
You return home earlier than expected while timer recording is in progress.... At times like this, you don't have to wait for recording to end. You can immediately view the programme from the beginning.

③ **Simultaneous recording/playback**
Even while recording to the hard disc, you can enjoy playback of a DVD, or programmes already recorded on hard disc. You don't have to wait for recording to finish.

11 MP3/WMA file playback

- This Recorder allows you to playback MP3/WMA files recorded on CD-RW/R and DVD-RW/R.

12 JPEG file playback

- This Recorder enables you to display still images stored as JPEG files on a DVD-RW/R. You can display images one at a time, or use the Slide Show function to automatically display images sequentially.

3. SPECIFICATIONS

General

HDD capacity:	250 GB (DV-HR480S), 160 GB (DV-HR450S), 80 GB (DV-HR400S)
Power supply:	AC 220-240 V, 50 Hz
Power consumption (Normal):	36 W
Power consumption (Standby):	1.5 W (When the Front Panel Display is off)
Dimensions:	Approx. 430 mm **x** 59 mm **x** 323 mm (W **x** H **x** D)
Weight:	Approx. 5.3 kg
Operating temperature	5°C to 35°C
Storage temperature:	–20°C to 55°C
Operating humidity:	10% to 80% (no condensation)
TV systems:	PAL system, 625 lines, 50 fields

Recording

Recordable disc media:	DVD-RW, DVD-R
Recording system (HDD):	Video: MPEG Audio: Dolby Digital (2ch)/Linear PCM (XP/MN32 mode only)
Recording system (DVD-RW/R):	Video: DVD-Video Recording (VR mode) DVD-VIDEO (Video mode) Audio: Dolby Digital (2ch)/Linear PCM (XP/MN32 mode only)
Recording time (Hard disc):	XP (High picture quality): Approx. 63 hours (DV-HR480S) Approx. 40 hours (DV-HR450S) Approx. 20 hours (DV-HR400S) SP (Standard): Approx. 104 hours (DV-HR480S) Approx. 68 hours (DV-HR450S) Approx. 33 hours (DV-HR400S) LP (2X): Approx. 208 hours (DV-HR480S) Approx. 137 hours (DV-HR450S) Approx. 67 hours (DV-HR400S) EP (3X): Approx. 312 hours (DV-HR480S) Approx. 205 hours (DV-HR450S) Approx. 100 hours (DV-HR400S) MN (Manual): 32 levels between XP and EP (However, the maximum continuous recording time is 12 hours.)

Recording time (with 4.7GB DVD-RW/R):	XP (High picture quality): Approx. 1 hour SP (Standard): Approx. 2 hours LP (2X): Approx. 4 hours EP (3X): Approx. 6 hours MN (Manual): 32 levels between XP and EP

Playback

Playable discs:	DVD Video, DVD-RW/R, DVD+RW/R, DVD-RAM, Audio CD (CD-DA), Video CD, CD-RW/R (CD-DA, Video CD format, MP3 file format, WMA file format, JPEG file format)

Tuner

Channel coverage:	PAL-B/G, PAL-D/K VHF 2-12 UHF 21-69 CATV S1-S41

Timer

Programmes:	16 programmes/1 year
Clock:	Quartz clock (24-hour digital display)
Memory backup:	Approx. 1 hour

Input/Output

VHF/UHF antenna input/output terminal:	75Ω (F-shape connector)
Video input:	LINE 1, LINE 2 (rear), 3 (front)
Input level:	1 Vp-p (75Ω)
SCARTs:	21 pin
Jack:	RCA-pin jack
Video output:	
Output level:	1 Vp-p (75Ω)
SCARTs:	21 pin
Jack:	RCA-pin jack
S-Video input:	LINE 1, LINE 2 (rear), 3 (front)
Y-Input level:	1 Vp-p (75Ω)
C-Input level:	0.3 Vp-p (75Ω)
SCARTs:	21 pin
Jack:	4 pin mini DIN
S-Video output:	
Y-Output level:	1 Vp-p (75Ω)
C-Output level:	0.3 Vp-p (75Ω)
SCART (only LINE 1):	21 pin
Jack:	4 pin mini DIN

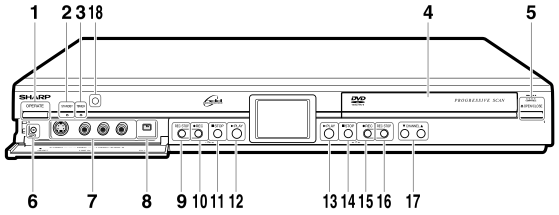
Component video output:
Output level: Y: 1 Vp-p (75Ω)
PB/CB, PR/CR: 0.7 Vp-p (75Ω)
Jacks: RCA jack
Audio input: Input 1, 2 (rear), 3 (front) L/R
Input level: 2 V rms (Input impedance: more than 22 kΩ)
Jacks: RCA jack
Audio output: L/R
Output level: 2 V rms (Output impedance: less than 1.5 kΩ)
Jacks: RCA jack
Digital audio optical output (DV-HR480S/DV-HR450S only):
Terminal: Square Optical terminal
Digital audio coaxial output:
Jack: RCA jack
DV input (DV-HR480S/DV-HR450S only):
Terminal: 4 pin (i.LINK/IEEE 1394 standard)
G-LINK:
Terminal: Mini jack

LASER Specification
Wave length: DVD: 658 nm
CD: 784 nm
Laser power: DVD: 100 mW
CD: 225 mW

Specifications are subject to change without notice.

4. PART NAMES

Main Unit (Front)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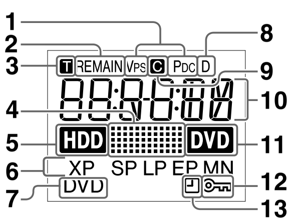
1 OPERATE
2 STANDBY indicator
3 TIMER indicator
4 Disc tray
5 OPEN/CLOSE
6 RESET
7 LINE IN 3
- AUDIO Input jacks
- VIDEO Input jack
- S-VIDEO Input jack

8 DV IN terminal (DV-HR480S/ DV-HR450S only)
9 HDD REC STOP
10 HDD ● REC
11 HDD ■ STOP
12 HDD ▶ PLAY
13 DVD ▶ PLAY
14 DVD ■ STOP
15 DVD ● REC
16 DVD REC STOP
17 CHANNEL ▼/▲
18 Infrared receptor

Front Panel Display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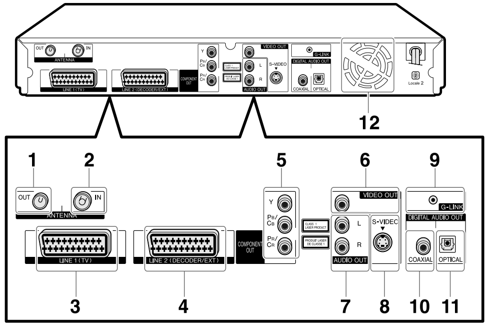
1 PDC/VPS indicator
2 Disc Remaining Time indicator
3 Title indicator
4 Dubbing indicator
5 HDD Mode indicator
6 Recording Mode indicator
7 DVD indicator
8 Decoder indicator
9 Chapter indicator
10 Information Display
11 DVD Mode indicator
12 Tamper Proof indicator
13 Simple Recording Timer indicator

Main Unit (Rear)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OUT
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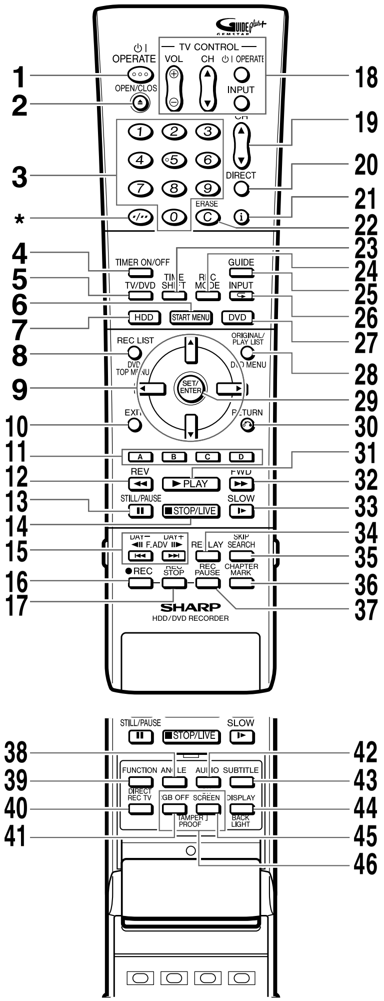
ANTENNA
LINE 1 (TV)
LINE 2 (DECODER/EXT)
COMPONENT OUT
Y
PB/CB
PR/CR
VIDEO OUT
S-VIDEO
L
R
AUDIO OUT
G-LINK
DIGITAL AUDIO OUT
COAXIAL
OPTICAL

1 ANTENNA OUT jack
2 ANTENNA IN jack
3 21-pin Euro-SCART (LINE 1 (TV))
4 21-pin Euro-SCART (LINE 2 (DECODER/EXT))
5 COMPONENT Video Output jacks
6 VIDEO Output jack
7 AUDIO Output jacks
8 S-VIDEO Output jack
9 G-LINK jack
10 DIGITAL AUDIO Output COAXIAL jack
11 DIGITAL AUDIO Output OPTICAL terminal (DV-HR480S/DV-HR450S only)
12 Cooling Fan

The cooling fan operates while the power to the Recorder is on. It also operates while in the standby state (when the STANDBY indicator is lit red), and while programmed recording is taking place or TV listings data is being downloaded.

Remote Control Unit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OPERATE
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TV CONTROL
VOL
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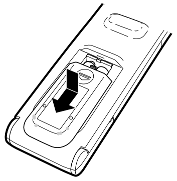
OPERATE
INPUT
DIRECT
ERASE
TIMER ON/OFF
TV/DVD
TIME SHIFT
REC MODE
GUIDE
INPUT
HDD
START MENU
DVD
REC LIST
DVD TOP MENU
ORIGINAL/ PLAY LIST
DVD MENU
SET/ ENTER
EXIT
RETURN
A
B
C
D
REV
PLAY
FWD
STILL/PAUSE
STOP/LIVE
SLOW
DAY−
DAY+
F.ADV
REPLAY
SKIP SEARCH
REC
REC STOP
REC PAUSE
CHAPTER MARK
SHARP
HDD/DVD RECORDER
FUNCTION
ANGLE
AUDIO
SUBTITLE
DIRECT REC TV
RGB OFF
ON SCREEN
DISPLAY
TAMPER PROOF
BACK LIGHT

1 OPERATE
2 ⏏ OPEN/CLOSE
3 Number buttons
4 TIMER ON/OFF
5 TV/DVD
6 START MENU
7 HDD
8 REC LIST/DVD TOP MENU
9 Cursor buttons (▲/▼/◀/▶)
10 EXIT
11 Red (A), Green (B), Yellow (C), Blue (D)
12 ◀◀ REV
13 ▮▮ STILL/PAUSE
14 ■ STOP/LIVE
15 ◀▮▮ F.ADV ▮▮▶, DAY– /+, ▮◀◀ SKIP ▶▶▮.
16 ● REC.
17 REC STOP
18 TV CONTROL buttons
19 CH ▼/▲, PAGE UP/DOWN
20 DIRECT
21 INFORMATION
22 ERASE
23 TIME SHIFT
24 REC MODE
25 GUIDE
26 INPUT
27 DVD
28 ORIGINAL/PLAY LIST/DVD MENU
29 SET/ENTER
30 ↶ RETURN
31 ▶ PLAY
32 ▶▶ FWD
33 ▮▶ SLOW
34 REPLAY
35 SKIP SEARCH
36 CHAPTER MARK
37 REC PAUSE
38 ANGLE
39 FUNCTION
40 DIRECT REC TV
41 RGB OFF
42 AUDIO
43 SUBTITLE
44 DISPLAY/BACKLIGHT
45 ON SCREEN
46 TAMPER PROOF

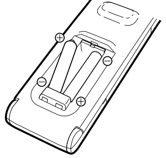
NOTE
- To change between single digit and two-digit channel numbers, press the key with "*" above (below **7** key). For example, to enter "24", press this key and then "24". Also this key is used to switch between UHF/VHF and CATV in the case of Manual Tuning.

Loading the Batteries

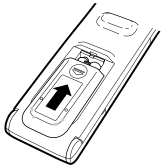
1 **While pressing ⏷ down, slide the battery cover in the direction of the arrow.**



2 **Load the batteries.**
Load the two R-03 size batteries (“AAA” size, UM/SUM-4) supplied with the remote control unit. Make sure that the battery poles ⊕ and ⊖ are positioned as indicated.



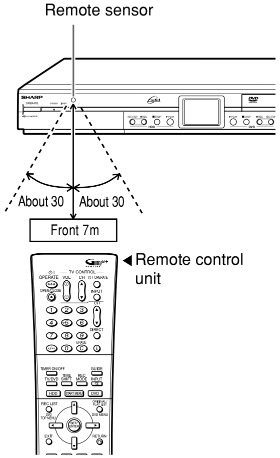
3 **Slide the battery cover in the direction of the arrow until it clicks.**



NOTE

- Do not subject the remote control unit to shock, water or excessive humidity.
- The remote control unit may not function if the Recorder’s remote sensor is in direct sunlight or any other strong light.
- Incorrect use of batteries may cause them to leak or burst. Read the battery warnings and use the batteries properly.
- Do not mix old and new batteries, or mix different brands.
- Remove the batteries if you will not use the remote control unit for an extended period of time.

Operating range of remote control



5. DISASSEMBLY METHOD

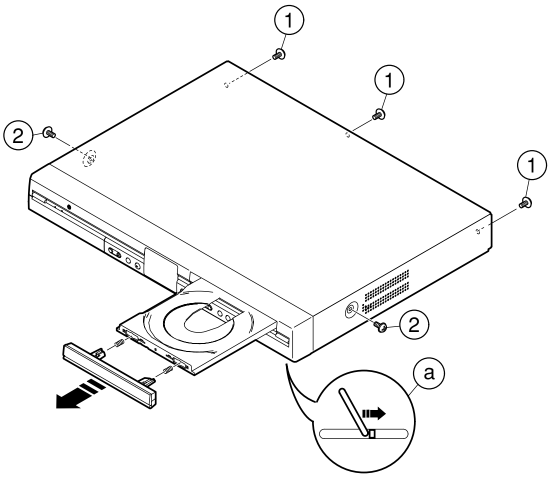
5-1. DISASSEMBLY METHOD

(1) Method for disassembly of top cabinet.

1.Remove 3 pieces of screw ① and 2 pieces of screw ②.
2.Slide top cabinet backwards for a distance of 10mm then lift exposed edge of top cabinet and slide upwards.

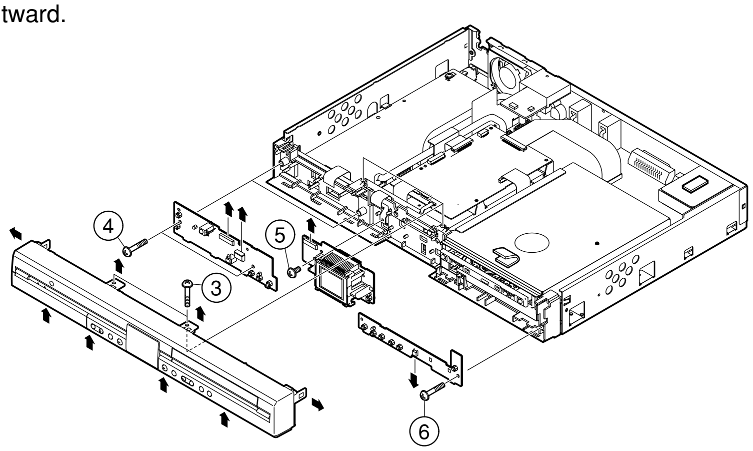
(2) Method for disassembly of front panel.

1.Push protrude area of a with screw driver etc,in direction shown to push tray out.
2.Remove tray dec ass'y from tray.(Unhook 4 hooks & remove 2 springs)
3.Remove 2 pieces of screw ③.
4.After removing and hooks of front panel, pull panel frontward.



(3) Method for removal of operation and LCD board.

1.Disconnect FFC. harness at 4 places.
2.Remove 2 pieces of screw ④. 1 piece of screw ⑤ and 1 piece of screw ⑥.
3.Pull all boards frontward.



(4) Method for removal of main board.

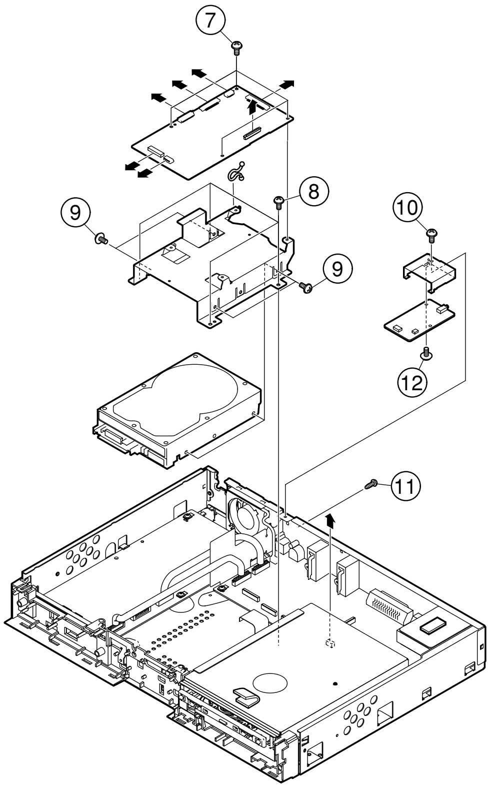
1.Remove wire holder .
2.remove 4pieces of screw ⑦.
3.Disconnect FFC, harness at 6 places.
4.Remove main board by lifting upward.

(5) Method for removal of HDD unit.

1.Remove 4 pieces of screw ⑧.
2.Remove HDD unit with angle by lifting it upward.
3.Remove 4 pieces of screw ⑨.
4.Remove HDD unit.
5.Remove flat cable and power cable.

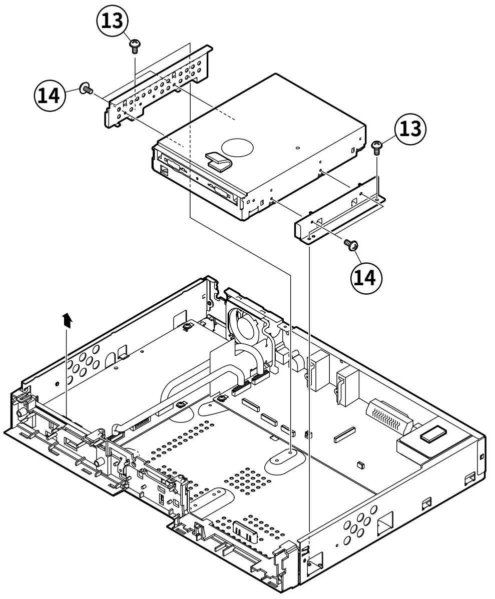
(6) Method for removal of G-link unit.

1.Remove 1 piece of screw ⑩ and 1 piece of screw ⑪.
2.Slide G-link unit out of rear panel.
3.Remove 1 piece of screw ⑫.
4.Remove G-link unit from jack angle.



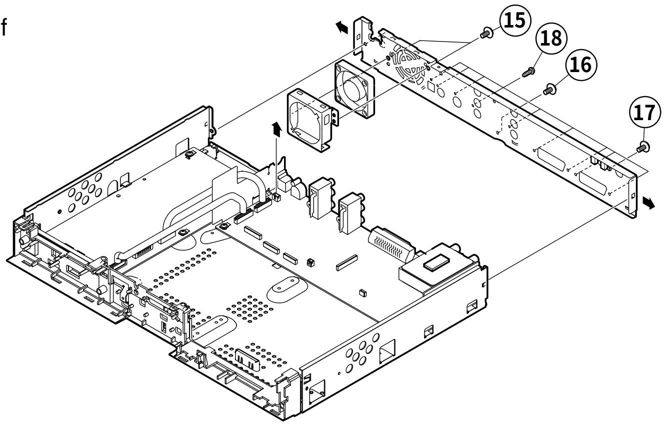
(7) Method for removal of Writer unit.

1.Remove 4 pieces of screw ⑬.
2.Remove Writer unit (with angle) by lifting upwards.
3.Remove 4 pieces of screw ⑭.
4.Disconnect flat cable and power cable.



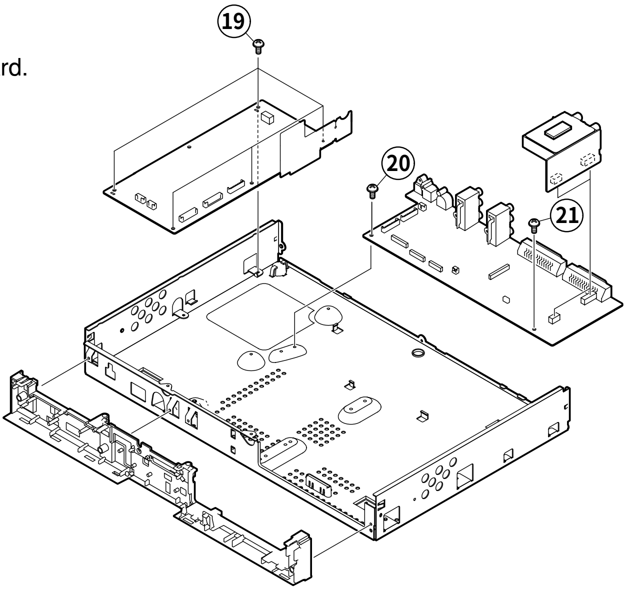
(8) Method for removal of rear panel and fan.

1.Disconnect for cable from sub-board.
2.Remove 2 pieces of screw ⑮.
3.Remove fan and fan angle.
4.Remove 1 piece of screw ⑯, 1 piece of screw ⑰, 8 pieces of screw ⑱. (8 pieces for DV-HR400S/H, 9 pieces for DV-HR450H and DV-HR480S/H)
5.Remove 2 hooks of rear panel from chassis.
6.Remove rear panel by puling it away from chassis.



(9) Method for removal of UV tuner board, power board and sub-board.

1.Remove UV tuner board by pulling upwards.
2.Disconnect cables of power board and sud-board.
3.Remove 5 pieces of screw ⑲.
4.Remove power board by lifting upwards.
5.Remove 1 piece of screw ⑳ and 1 piece of screw ㉑.
6.Remove sub-board by lifting it upwards.

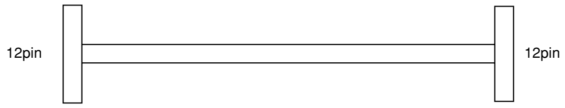


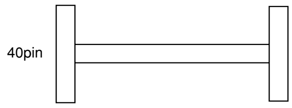
5-2. EXTENSION CABLE DIAGRAM

	Parts Code	Price Code	Parts name / Use
①	QCNW-C773WJZZ	AD	Main to Sub Signal Line CN3001—CN2202
②	QCNW-C771WJZZ	AD	Main to Sub Control Line CN4502↔CN9803
③	QCNW-D183WJZZ	AT	Main to Power CN3004↔P9005
④	QCNW-D422WJZZ	AH	ATAPI cable for HDD CN4501↔ATAPi

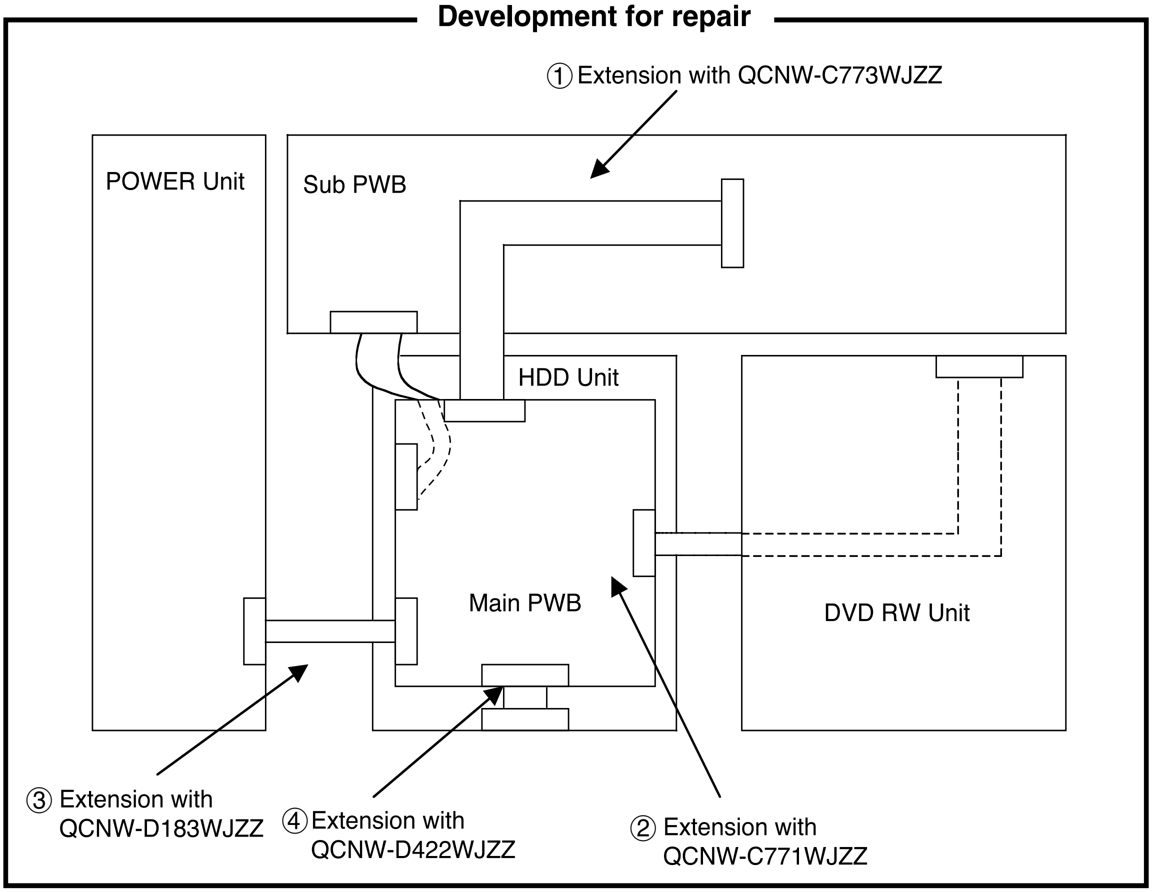
①

②

③

12pin
12pin

④


Development for repair


① Extension with QCNW-C773WJZZ
POWER Unit
Sub PWB
HDD Unit
Main PWB
DVD RW Unit
③ Extension with QCNW-D183WJZZ
④ Extension with QCNW-D422WJZZ
② Extension with QCNW-C771WJZZ

6. ELECTRICAL ADJUSTMENT METHOD

6-1. IC501 FRONT TIMER MICON INITIAL JUMPER SETTING METHOD

Whenever EEPROM IC503 is change, please confirm Initial Jumper Setting using below method.

Initial Jumper Setting

1).Press the power key to turn off the power. Then, enter Initial Jumper Setting mode by pressing the R/C Test key (F8H) OR take off the front panel, and press Test key SW5005.
2).By using channel ▲ / ▼ key, confirm the jumper setting base on below table.
*If JP Number blinking: “1” If JP Number light ON: “0”
3).Press DVD PLAY key to change to “1” (JP Number blinking).
Press DVD STOP key to change to “0” (JP Number light ON).
4).After finish the setting and confirmation, again press the R/C Test key (F8H) OR press Test key SW5005 at the front panel to cancel the Initial Jumper Setting mode..
5).Press Reset key at the front panel.

Jumper Name	Jumper#	DV-HR400/450/480S	DV-HR400/450/480H
AV SW IC	JP00:	0	0
NO USE	JP01:	0	0
T.Prg Lpow NG	JP02:	1	1
T.CH BCD from Host	JP03:	0	0
EPG Backlight NG	JP04:	0	0
Decoder ON NG	JP05:	0	0
NO USE	JP06:	0	0
NO USE	JP07:	0	0
NO USE	JP08:	0	0
NO USE	JP09:	0	0
NO USE	JP10:	0	0
NO USE	JP11:	0	0
NO USE	JP12:	0	0
NO USE	JP13:	0	0
NO USE	JP14:	0	0
NO USE	JP15:	0	0
NO USE	JP16:	0	0
NO USE	JP17:	0	0
NO USE	JP18:	0	0
NO USE	JP19:	0	0
NO USE	JP20:	0	0
NO USE	JP21:	0	0
NO USE	JP22:	0	0
NO USE	JP23:	0	0
NO USE	JP24:	0	0
NO USE	JP25:	0	0
NO USE	JP26:	0	0
NO USE	JP27:	0	0
NO USE	JP28:	0	0
NO USE	JP29:	0	0
NO USE	JP30:	0	0
NO USE	JP31:	0	0
NO USE	JP32:	0	0
NO USE	JP33:	0	0
NO USE	JP34:	0	0
NO USE	JP35:	0	0
NO USE	JP36:	0	0
NO USE	JP37:	0	0
NO USE	JP38:	0	0
NO USE	JP39:	0	0
Total Hex			

1 : PLAY key	Blinking
0 : STOP Key	Light ON

6-2. Notes for servicing

1. After replacing NAND Flash (IC7507), upgrade the version using the CD.
2. After replacing the Main PWB, do initialization of the HDD.

The following parts cannot be replaced as the system information needs to be written. (Replace the PWB.)

1. EEPROM IC7504

Setting procedure after replacement of HDD or main PWB

1) HDD aging

   The test mode can be accessed after replacing the HDD.

   [1] Enter the test mode with the keys on the main unit (press the channel DOWN key and DVD REC STOP key simultaneously).
   [2] Press the “RED” color key botton of te R/C.
   [3] Press the ENTER key of the R/C.
   “000001” appears on the LCD of the front panel. the aging starts. The display will change to “000777” when the aging is completed.
   Should “EEE” appear, replace the HDD and start the process over. Aging takes approx. 2 hours.
   [4] The aging is completed when “000777” appears, turn off the Power.
   [5] Restart the unit and check the operation.

2) Factory setting

   Initialize all the settings. Enter the test mode and select “INS.SHIPMENT” “ON” by using the cursor Key (▲ / ▼ / ◀ / ▶).
   Then,Press the ENTER key on the R/C.
   Initialization is completed when “INS.SHIPMENT” “OK” is display on the TV screen.
   Turn off the Power.

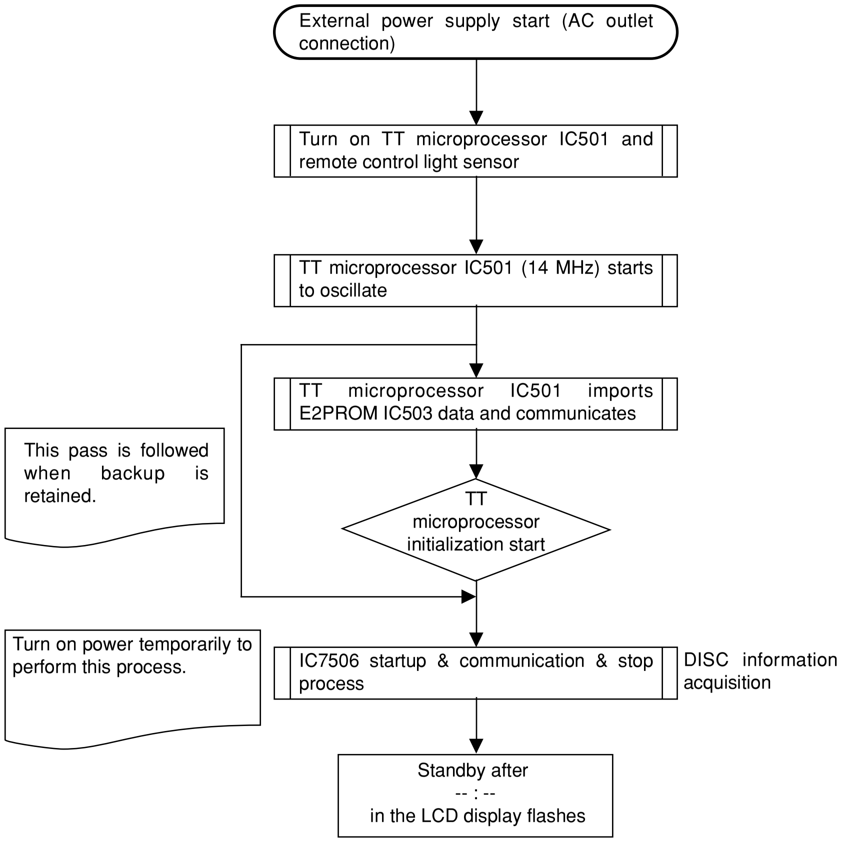
6-3. Writing of software

1. Press the power key to turn on the power.
2. Open the tray with the tray open/close key and place the version upgrade CD.
3. Close the tray. Upgrade begins automatically.
   “200” appears on the main unit display.
4. When the upgrade finishes, the tray opens and “208” appears on the main unit display.
5. Turn off the power to complete the upgrade.

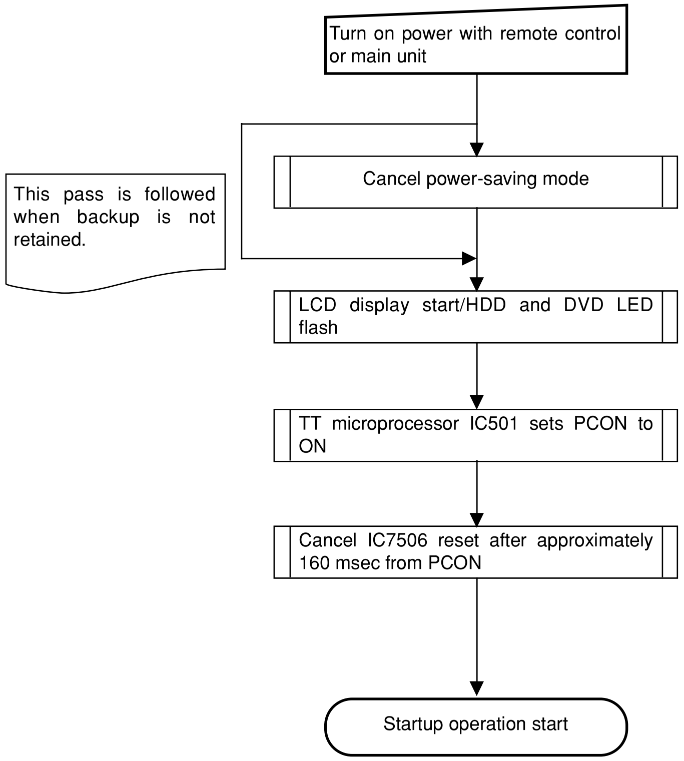
- Upgrade the writer in the same way. In this case, “300” and “307” appear on the main unit display during the process.

7. TROUBLESHOOTING

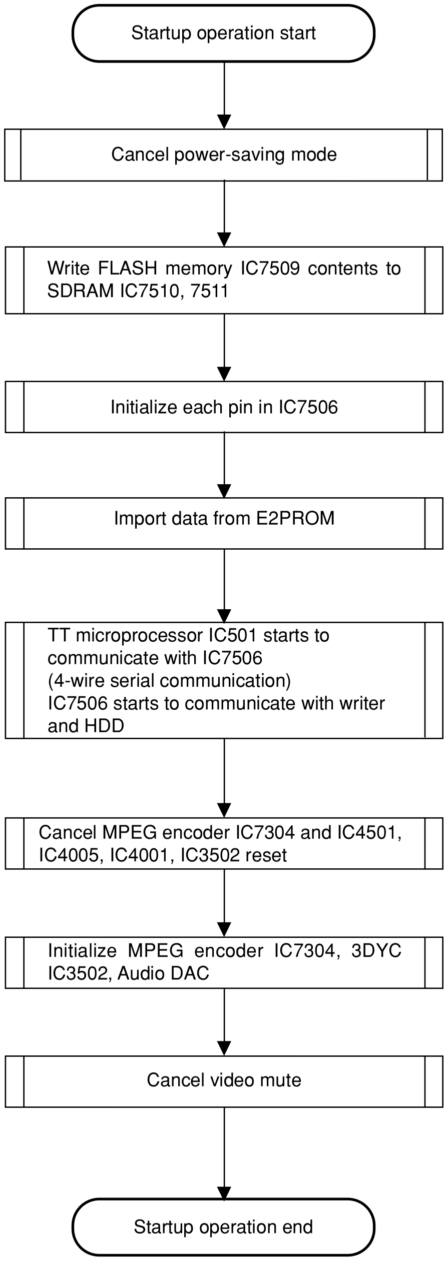
Power On Process 1


External power supply start (AC outlet connection)
Turn on TT microprocessor IC501 and remote control light sensor
TT microprocessor IC501 (14 MHz) starts to oscillate
TT microprocessor IC501 imports E2PROM IC503 data and communicates
TT microprocessor initialization start
This pass is followed when backup is retained.
Turn on power temporarily to perform this process.
IC7506 startup & communication & stop process
DISC information acquisition
Standby after
-- : --
in the LCD display flashes

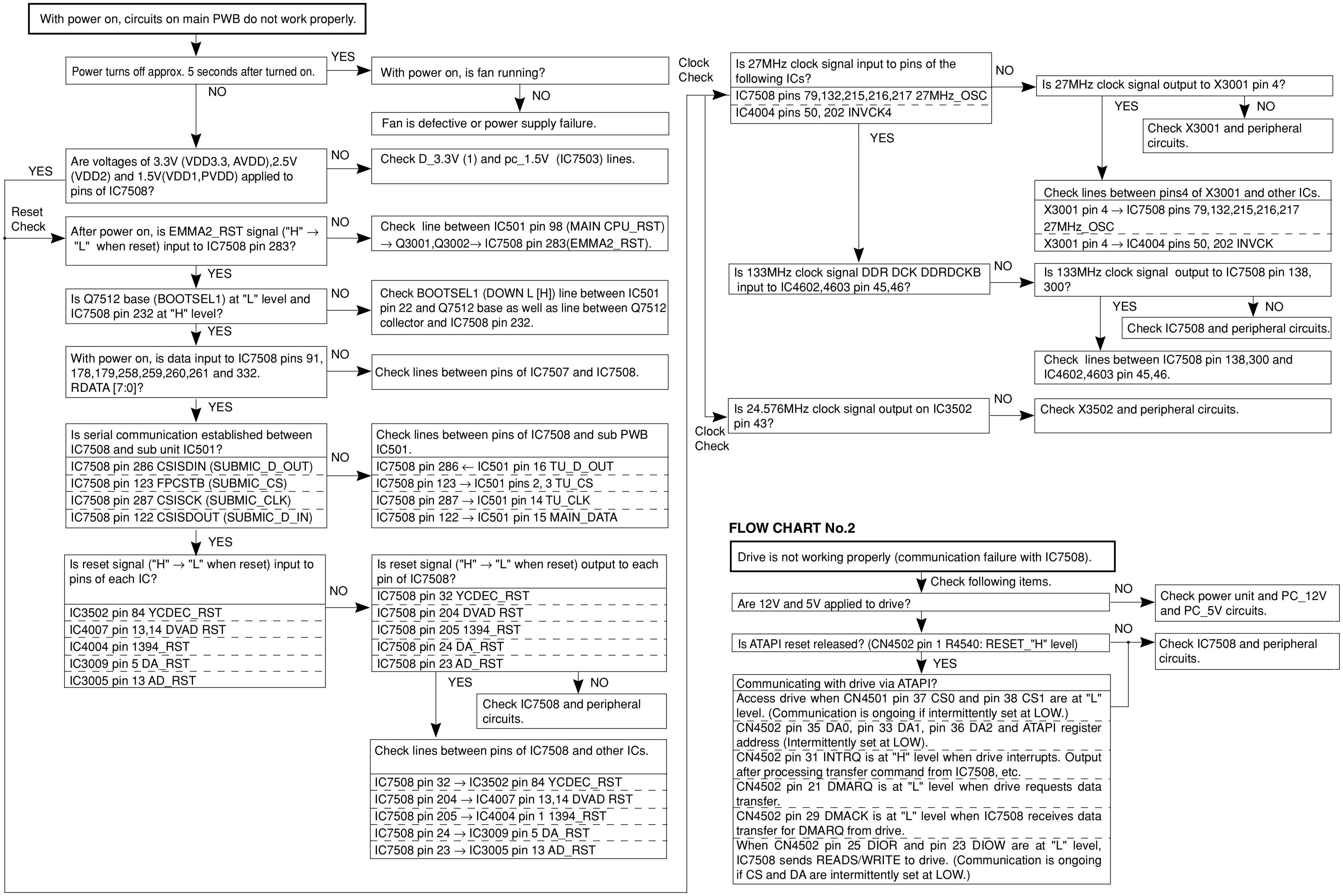
Power On Process 2


Turn on power with remote control or main unit
Cancel power-saving mode
This pass is followed when backup is not retained.
LCD display start/HDD and DVD LED flash
TT microprocessor IC501 sets PCON to ON
Cancel IC7506 reset after approximately 160 msec from PCON
Startup operation start

Power On Process 3


Startup operation start
Cancel power-saving mode
Write FLASH memory IC7509 contents to SDRAM IC7510, 7511
Initialize each pin in IC7506
Import data from E2PROM
TT microprocessor IC501 starts to communicate with IC7506 (4-wire serial communication) IC7506 starts to communicate with writer and HDD
Cancel MPEG encoder IC7304 and IC4501, IC4005, IC4001, IC3502 reset
Initialize MPEG encoder IC7304, 3DYC IC3502, Audio DAC
Cancel video mute
Startup operation end

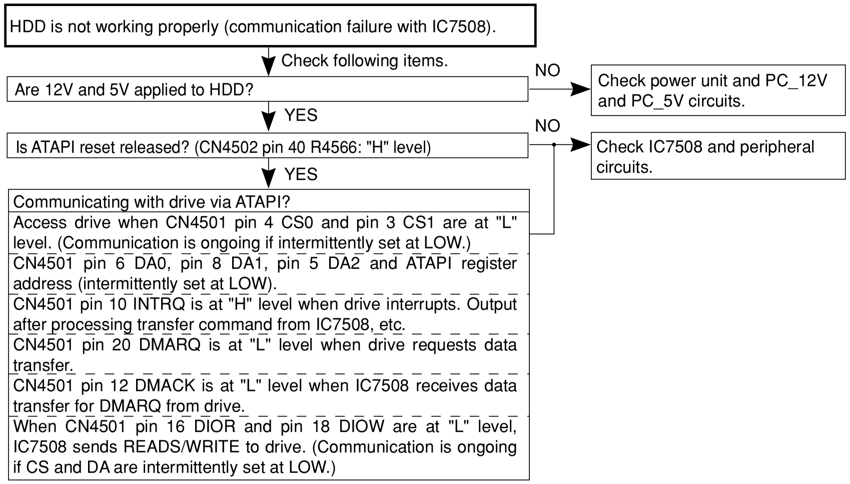
FLOW CHART No.1


With power on, circuits on main PWB do not work properly.
Power turns off approx. 5 seconds after turned on.
YES
With power on, is fan running?
NO
Fan is defective or power supply failure.
NO
Are voltages of 3.3V (VDD3.3, AVDD),2.5V (VDD2) and 1.5V(VDD1,PVDD) applied to pins of IC7508?
NO
Check D_3.3V (1) and pc_1.5V (IC7503) lines.
YES
Reset Check
After power on, is EMMA2_RST signal ("H" → "L" when reset) input to IC7508 pin 283?
NO
Check line between IC501 pin 98 (MAIN CPU_RST) → Q3001,Q3002→ IC7508 pin 283(EMMA2_RST).
YES
Is Q7512 base (BOOTSEL1) at "L" level and IC7508 pin 232 at "H" level?
NO
Check BOOTSEL1 (DOWN L [H]) line between IC501 pin 22 and Q7512 base as well as line between Q7512 collector and IC7508 pin 232.
YES
With power on, is data input to IC7508 pins 91, 178,179,258,259,260,261 and 332. RDATA [7:0]?
NO
Check lines between pins of IC7507 and IC7508.
YES
Is serial communication established between IC7508 and sub unit IC501?
IC7508 pin 286 CSISDIN (SUBMIC_D_OUT)
IC7508 pin 123 FPCSTB (SUBMIC_CS)
IC7508 pin 287 CSISCK (SUBMIC_CLK)
IC7508 pin 122 CSISDOUT (SUBMIC_D_IN)
NO
Check lines between pins of IC7508 and sub PWB IC501.
IC7508 pin 286 ← IC501 pin 16 TU_D_OUT
IC7508 pin 123 → IC501 pins 2, 3 TU_CS
IC7508 pin 287 → IC501 pin 14 TU_CLK
IC7508 pin 122 → IC501 pin 15 MAIN_DATA
YES
Is reset signal ("H" → "L" when reset) input to pins of each IC?
IC3502 pin 84 YCDEC_RST
IC4007 pin 13,14 DVAD RST
IC4004 pin 1394_RST
IC3009 pin 5 DA_RST
IC3005 pin 13 AD_RST
NO
Is reset signal ("H" → "L" when reset) output to each pin of IC7508?
IC7508 pin 32 YCDEC_RST
IC7508 pin 204 DVAD RST
IC7508 pin 205 1394_RST
IC7508 pin 24 DA_RST
IC7508 pin 23 AD_RST
YES
NO
Check IC7508 and peripheral circuits.
Check lines between pins of IC7508 and other ICs.
IC7508 pin 32 → IC3502 pin 84 YCDEC_RST
IC7508 pin 204 → IC4007 pin 13,14 DVAD RST
IC7508 pin 205 → IC4004 pin 1 1394_RST
IC7508 pin 24 → IC3009 pin 5 DA_RST
IC7508 pin 23 → IC3005 pin 13 AD_RST
Clock Check
Is 27MHz clock signal input to pins of the following ICs?
IC7508 pins 79,132,215,216,217 27MHz_OSC
IC4004 pins 50, 202 INVCK4
NO
Is 27MHz clock signal output to X3001 pin 4?
YES
NO
Check X3001 and peripheral circuits.
Check lines between pins4 of X3001 and other ICs.
X3001 pin 4 → IC7508 pins 79,132,215,216,217 27MHz_OSC
X3001 pin 4 → IC4004 pins 50, 202 INVCK
YES
Is 133MHz clock signal DDR DCK DDRDCKB input to IC4602,4603 pin 45,46?
NO
Is 133MHz clock signal output to IC7508 pin 138, 300?
YES
NO
Check IC7508 and peripheral circuits.
Check lines between IC7508 pin 138,300 and IC4602,4603 pin 45,46.
Clock Check
Is 24.576MHz clock signal output on IC3502 pin 43?
NO
Check X3502 and peripheral circuits.

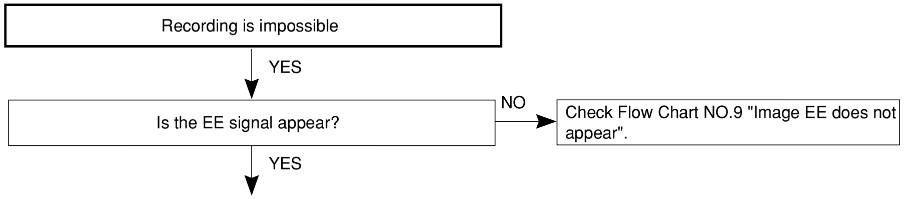
FLOW CHART No.2

Drive is not working properly (communication failure with IC7508).
Check following items.
Are 12V and 5V applied to drive?
NO
Check power unit and PC_12V and PC_5V circuits.
Is ATAPI reset released? (CN4502 pin 1 R4540: RESET_"H" level)
NO
Check IC7508 and peripheral circuits.
YES
Communicating with drive via ATAPI?
Access drive when CN4501 pin 37 CS0 and pin 38 CS1 are at "L" level. (Communication is ongoing if intermittently set at LOW.)
CN4502 pin 35 DA0, pin 33 DA1, pin 36 DA2 and ATAPI register address (Intermittently set at LOW).
CN4502 pin 31 INTRQ is at "H" level when drive interrupts. Output after processing transfer command from IC7508, etc.
CN4502 pin 21 DMARQ is at "L" level when drive requests data transfer.
CN4502 pin 29 DMACK is at "L" level when IC7508 receives data transfer for DMARQ from drive.
When CN4502 pin 25 DIOR and pin 23 DIOW are at "L" level, IC7508 sends READS/WRITE to drive. (Communication is ongoing if CS and DA are intermittently set at LOW.)

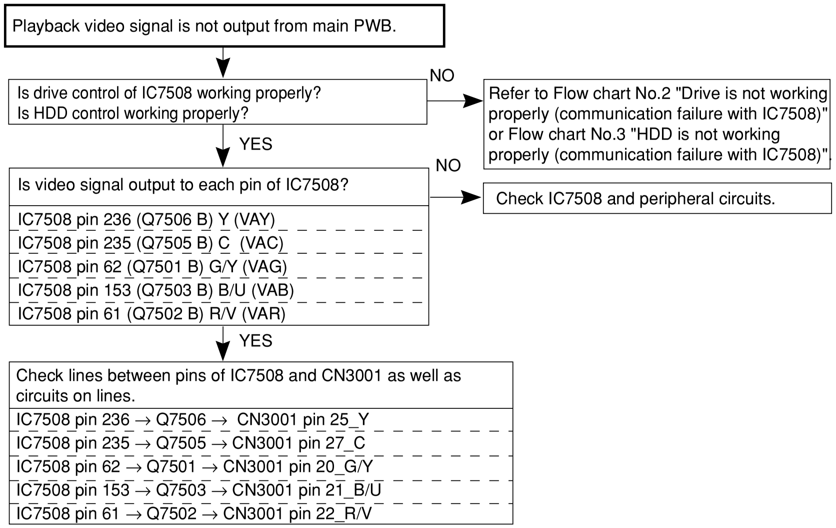
FLOW CHART No.3


HDD is not working properly (communication failure with IC7508).
Check following items.
Are 12V and 5V applied to HDD?
NO
Check power unit and PC_12V and PC_5V circuits.
YES
Is ATAPI reset released? (CN4502 pin 40 R4566: "H" level)
NO
Check IC7508 and peripheral circuits.
YES
Communicating with drive via ATAPI?
Access drive when CN4501 pin 4 CS0 and pin 3 CS1 are at "L" level. (Communication is ongoing if intermittently set at LOW.)
CN4501 pin 6 DA0, pin 8 DA1, pin 5 DA2 and ATAPI register address (intermittently set at LOW).
CN4501 pin 10 INTRQ is at "H" level when drive interrupts. Output after processing transfer command from IC7508, etc.
CN4501 pin 20 DMARQ is at "L" level when drive requests data transfer.
CN4501 pin 12 DMACK is at "L" level when IC7508 receives data transfer for DMARQ from drive.
When CN4501 pin 16 DIOR and pin 18 DIOW are at "L" level, IC7508 sends READS/WRITE to drive. (Communication is ongoing if CS and DA are intermittently set at LOW.)

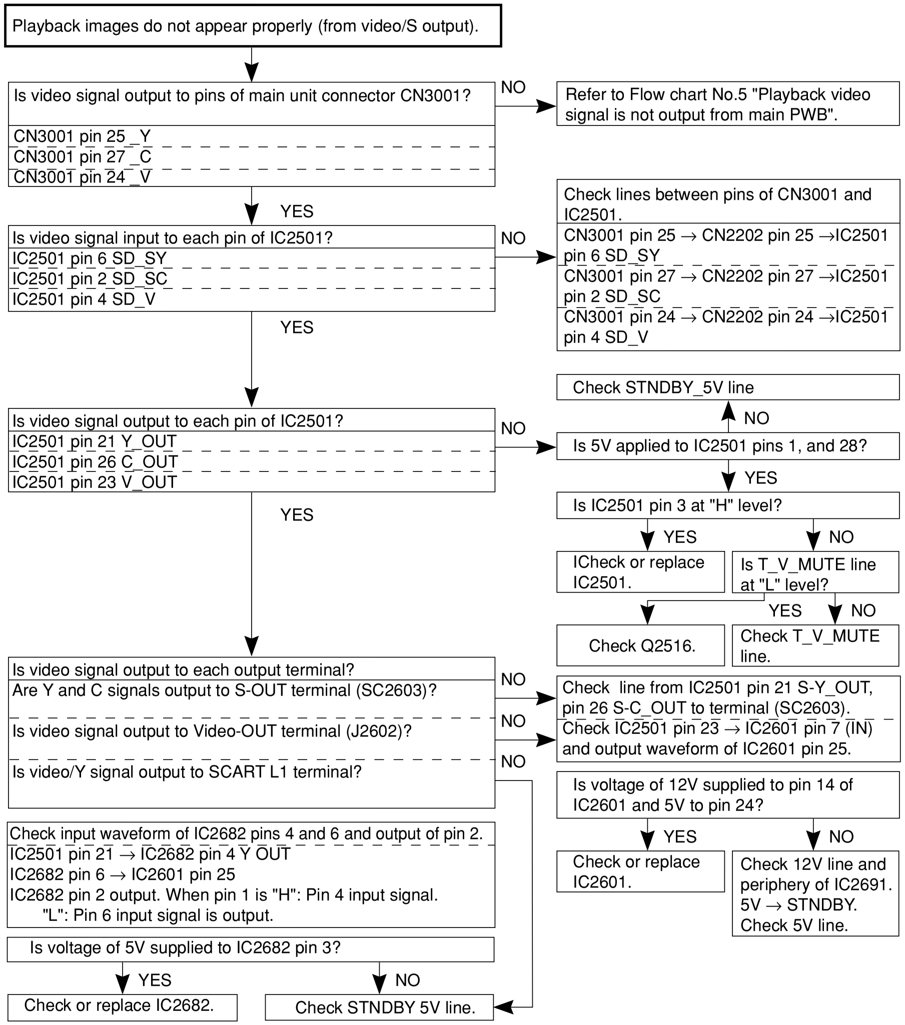
FLOW CHART No.4


Recording is impossible
YES
Is the EE signal appear?
NO
Check Flow Chart NO.9 "Image EE does not appear".
YES

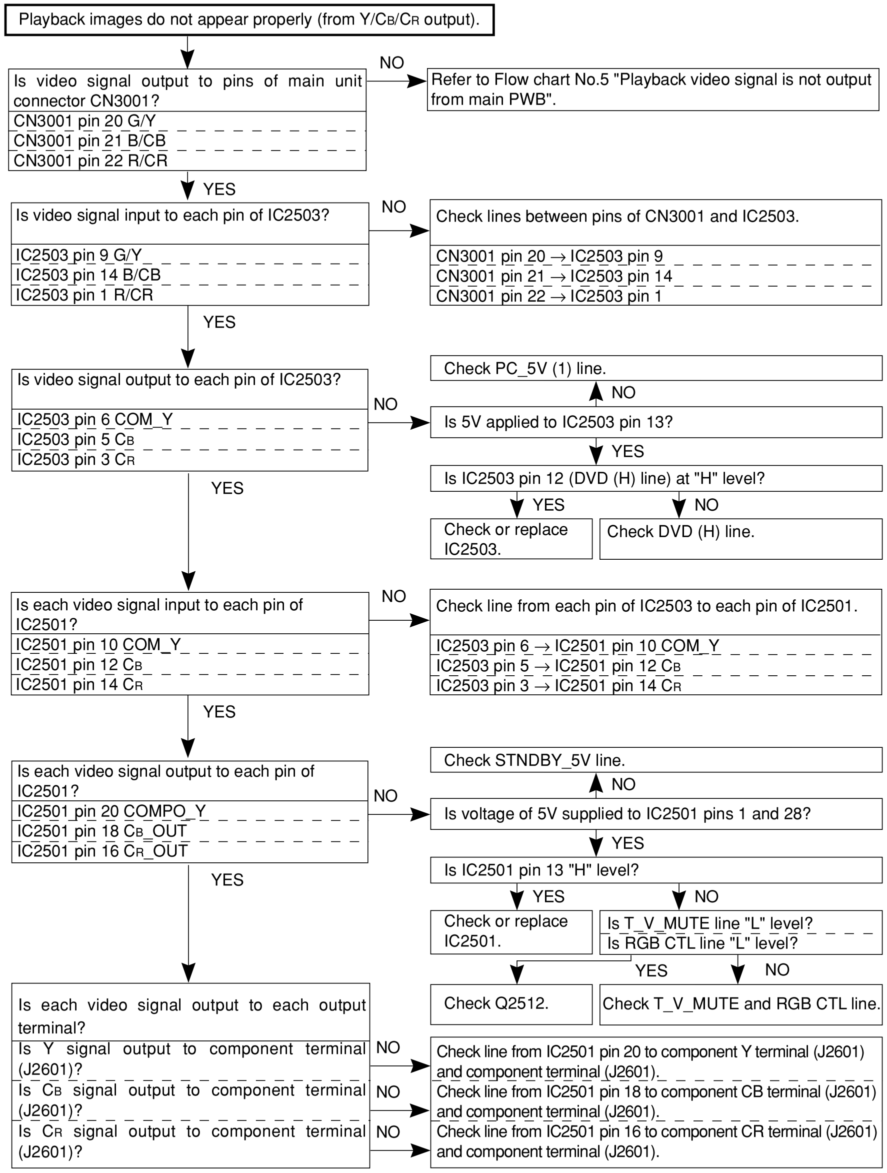
FLOW CHART No.5


Playback video signal is not output from main PWB.
Is drive control of IC7508 working properly?
Is HDD control working properly?
NO
Refer to Flow chart No.2 "Drive is not working properly (communication failure with IC7508)" or Flow chart No.3 "HDD is not working properly (communication failure with IC7508)".
YES
Is video signal output to each pin of IC7508?
IC7508 pin 236 (Q7506 B) Y (VAY)
IC7508 pin 235 (Q7505 B) C (VAC)
IC7508 pin 62 (Q7501 B) G/Y (VAG)
IC7508 pin 153 (Q7503 B) B/U (VAB)
IC7508 pin 61 (Q7502 B) R/V (VAR)
NO
Check IC7508 and peripheral circuits.
YES
Check lines between pins of IC7508 and CN3001 as well as circuits on lines.
IC7508 pin 236 → Q7506 → CN3001 pin 25_Y
IC7508 pin 235 → Q7505 → CN3001 pin 27_C
IC7508 pin 62 → Q7501 → CN3001 pin 20_G/Y
IC7508 pin 153 → Q7503 → CN3001 pin 21_B/U
IC7508 pin 61 → Q7502 → CN3001 pin 22_R/V

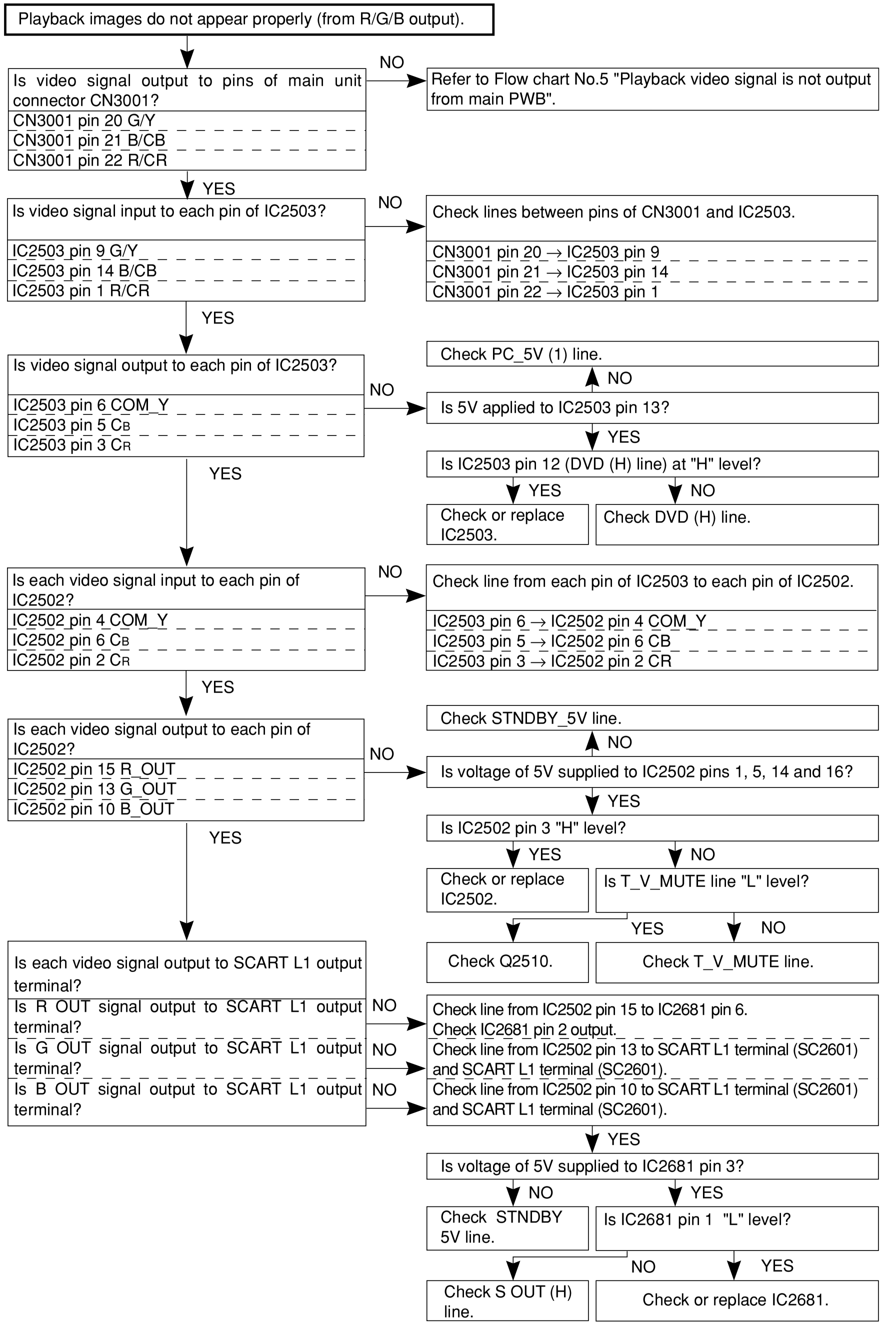
FLOW CHART No.6


Playback images do not appear properly (from video/S output).
Is video signal output to pins of main unit connector CN3001?
CN3001 pin 25 _Y
CN3001 pin 27 _C
CN3001 pin 24 _V
NO
Refer to Flow chart No.5 "Playback video signal is not output from main PWB".
YES
Is video signal input to each pin of IC2501?
IC2501 pin 6 SD_SY
IC2501 pin 2 SD_SC
IC2501 pin 4 SD_V
NO
Check lines between pins of CN3001 and IC2501.
CN3001 pin 25 → CN2202 pin 25 →IC2501 pin 6 SD_SY
CN3001 pin 27 → CN2202 pin 27 →IC2501 pin 2 SD_SC
CN3001 pin 24 → CN2202 pin 24 →IC2501 pin 4 SD_V
YES
Is video signal output to each pin of IC2501?
IC2501 pin 21 Y_OUT
IC2501 pin 26 C_OUT
IC2501 pin 23 V_OUT
NO
Is 5V applied to IC2501 pins 1, and 28?
NO
Check STNDBY_5V line
YES
Is IC2501 pin 3 at "H" level?
YES
ICheck or replace IC2501.
NO
Is T_V_MUTE line at "L" level?
YES
Check Q2516.
NO
Check T_V_MUTE line.
YES
Is video signal output to each output terminal?
Are Y and C signals output to S-OUT terminal (SC2603)?
NO
Check line from IC2501 pin 21 S-Y_OUT, pin 26 S-C_OUT to terminal (SC2603).
Is video signal output to Video-OUT terminal (J2602)?
NO
Check IC2501 pin 23 → IC2601 pin 7 (IN) and output waveform of IC2601 pin 25.
Is video/Y signal output to SCART L1 terminal?
NO
Is voltage of 12V supplied to pin 14 of IC2601 and 5V to pin 24?
YES
Check or replace IC2601.
NO
Check 12V line and periphery of IC2691. 5V → STNDBY. Check 5V line.
Check input waveform of IC2682 pins 4 and 6 and output of pin 2.
IC2501 pin 21 → IC2682 pin 4 Y OUT
IC2682 pin 6 → IC2601 pin 25
IC2682 pin 2 output. When pin 1 is "H": Pin 4 input signal.
"L": Pin 6 input signal is output.
Is voltage of 5V supplied to IC2682 pin 3?
YES
Check or replace IC2682.
NO
Check STNDBY 5V line.

FLOW CHART No.7


Playback images do not appear properly (from Y/CB/CR output).
Is video signal output to pins of main unit connector CN3001?
CN3001 pin 20 G/Y
CN3001 pin 21 B/CB
CN3001 pin 22 R/CR
NO
Refer to Flow chart No.5 "Playback video signal is not output from main PWB".
YES
Is video signal input to each pin of IC2503?
IC2503 pin 9 G/Y
IC2503 pin 14 B/CB
IC2503 pin 1 R/CR
NO
Check lines between pins of CN3001 and IC2503.
CN3001 pin 20 → IC2503 pin 9
CN3001 pin 21 → IC2503 pin 14
CN3001 pin 22 → IC2503 pin 1
YES
Is video signal output to each pin of IC2503?
IC2503 pin 6 COM_Y
IC2503 pin 5 CB
IC2503 pin 3 CR
NO
Is 5V applied to IC2503 pin 13?
NO
Check PC_5V (1) line.
YES
Is IC2503 pin 12 (DVD (H) line) at "H" level?
YES
Check or replace IC2503.
NO
Check DVD (H) line.
YES
Is each video signal input to each pin of IC2501?
IC2501 pin 10 COM_Y
IC2501 pin 12 CB
IC2501 pin 14 CR
NO
Check line from each pin of IC2503 to each pin of IC2501.
IC2503 pin 6 → IC2501 pin 10 COM_Y
IC2503 pin 5 → IC2501 pin 12 CB
IC2503 pin 3 → IC2501 pin 14 CR
YES
Is each video signal output to each pin of IC2501?
IC2501 pin 20 COMPO_Y
IC2501 pin 18 CB_OUT
IC2501 pin 16 CR_OUT
NO
Is voltage of 5V supplied to IC2501 pins 1 and 28?
NO
Check STNDBY_5V line.
YES
Is IC2501 pin 13 "H" level?
YES
Check or replace IC2501.
NO
Is T_V_MUTE line "L" level?
Is RGB CTL line "L" level?
YES
Check Q2512.
NO
Check T_V_MUTE and RGB CTL line.
YES
Is each video signal output to each output terminal?
Is Y signal output to component terminal (J2601)?
Is CB signal output to component terminal (J2601)?
Is CR signal output to component terminal (J2601)?
NO
Check line from IC2501 pin 20 to component Y terminal (J2601) and component terminal (J2601).
NO
Check line from IC2501 pin 18 to component CB terminal (J2601) and component terminal (J2601).
NO
Check line from IC2501 pin 16 to component CR terminal (J2601) and component terminal (J2601).

FLOW CHART No.8


Playback images do not appear properly (from R/G/B output).
Is video signal output to pins of main unit connector CN3001?
CN3001 pin 20 G/Y
CN3001 pin 21 B/CB
CN3001 pin 22 R/CR
NO
Refer to Flow chart No.5 "Playback video signal is not output from main PWB".
YES
Is video signal input to each pin of IC2503?
IC2503 pin 9 G/Y
IC2503 pin 14 B/CB
IC2503 pin 1 R/CR
NO
Check lines between pins of CN3001 and IC2503.
CN3001 pin 20 → IC2503 pin 9
CN3001 pin 21 → IC2503 pin 14
CN3001 pin 22 → IC2503 pin 1
YES
Is video signal output to each pin of IC2503?
IC2503 pin 6 COM_Y
IC2503 pin 5 CB
IC2503 pin 3 CR
NO
Is 5V applied to IC2503 pin 13?
NO
Check PC_5V (1) line.
YES
Is IC2503 pin 12 (DVD (H) line) at "H" level?
YES
Check or replace IC2503.
NO
Check DVD (H) line.
YES
Is each video signal input to each pin of IC2502?
IC2502 pin 4 COM_Y
IC2502 pin 6 CB
IC2502 pin 2 CR
NO
Check line from each pin of IC2503 to each pin of IC2502.
IC2503 pin 6 → IC2502 pin 4 COM_Y
IC2503 pin 5 → IC2502 pin 6 CB
IC2503 pin 3 → IC2502 pin 2 CR
YES
Is each video signal output to each pin of IC2502?
IC2502 pin 15 R_OUT
IC2502 pin 13 G_OUT
IC2502 pin 10 B_OUT
NO
Is voltage of 5V supplied to IC2502 pins 1, 5, 14 and 16?
NO
Check STNDBY_5V line.
YES
Is IC2502 pin 3 "H" level?
YES
Check or replace IC2502.
NO
Is T_V_MUTE line "L" level?
YES
Check Q2510.
NO
Check T_V_MUTE line.
YES
Is each video signal output to SCART L1 output terminal?
Is R OUT signal output to SCART L1 output terminal?
Is G OUT signal output to SCART L1 output terminal?
Is B OUT signal output to SCART L1 output terminal?
NO
Check line from IC2502 pin 15 to IC2681 pin 6.
Check IC2681 pin 2 output.
NO
Check line from IC2502 pin 13 to SCART L1 terminal (SC2601) and SCART L1 terminal (SC2601).
NO
Check line from IC2502 pin 10 to SCART L1 terminal (SC2601) and SCART L1 terminal (SC2601).
YES
Is voltage of 5V supplied to IC2681 pin 3?
NO
Check STNDBY 5V line.
YES
Is IC2681 pin 1 "L" level?
NO
Check S OUT (H) line.
YES
Check or replace IC2681.

FLOW CHART No.9

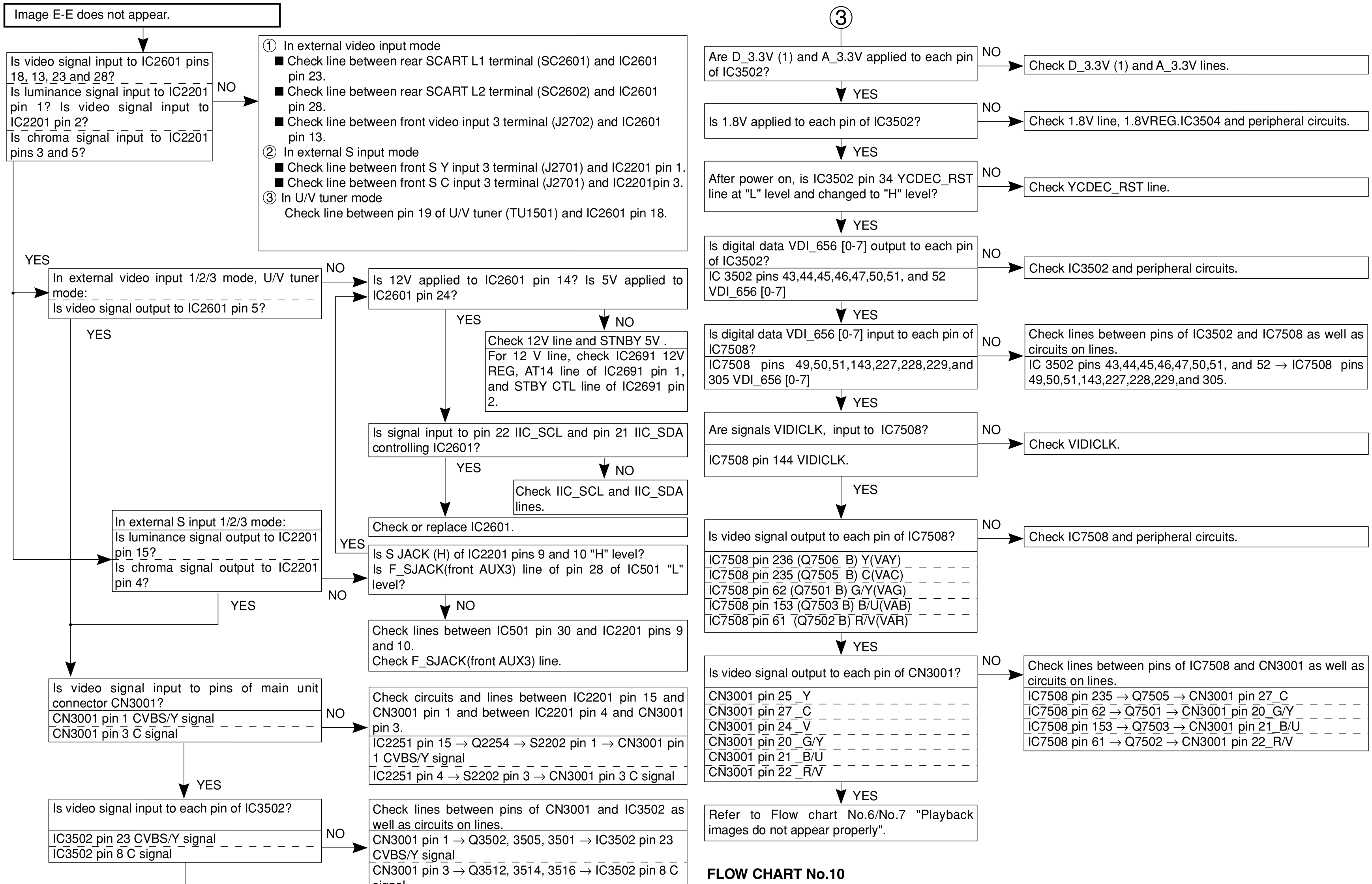


Image E-E does not appear.

Is video signal input to IC2601 pins 18, 13, 23 and 28?
Is luminance signal input to IC2201 pin 1? Is video signal input to IC2201 pin 2?
Is chroma signal input to IC2201 pins 3 and 5?

NO →

① In external video input mode
- ■ Check line between rear SCART L1 terminal (SC2601) and IC2601 pin 23.
- ■ Check line between rear SCART L2 terminal (SC2602) and IC2601 pin 28.
- ■ Check line between front video input 3 terminal (J2702) and IC2601 pin 13.

② In external S input mode
- ■ Check line between front S Y input 3 terminal (J2701) and IC2201 pin 1.
- ■ Check line between front S C input 3 terminal (J2701) and IC2201pin 3.

③ In U/V tuner mode
Check line between pin 19 of U/V tuner (TU1501) and IC2601 pin 18.

YES →

In external video input 1/2/3 mode, U/V tuner mode:
Is video signal output to IC2601 pin 5?

NO → Is 12V applied to IC2601 pin 14? Is 5V applied to IC2601 pin 24?

NO → Check 12V line and STNBY 5V .
For 12 V line, check IC2691 12V REG, AT14 line of IC2691 pin 1, and STBY CTL line of IC2691 pin 2.

YES → Is signal input to pin 22 IIC_SCL and pin 21 IIC_SDA controlling IC2601?

NO → Check IIC_SCL and IIC_SDA lines.

YES → Check or replace IC2601.

In external S input 1/2/3 mode:
Is luminance signal output to IC2201 pin 15?
Is chroma signal output to IC2201 pin 4?

NO → Is S JACK (H) of IC2201 pins 9 and 10 "H" level?
Is F_SJACK(front AUX3) line of pin 28 of IC501 "L" level?

YES → Is 12V applied to IC2601 pin 14? Is 5V applied to IC2601 pin 24?

NO → Check lines between IC501 pin 30 and IC2201 pins 9 and 10.
Check F_SJACK(front AUX3) line.

YES →

Is video signal input to pins of main unit connector CN3001?
CN3001 pin 1 CVBS/Y signal
CN3001 pin 3 C signal

NO → Check circuits and lines between IC2201 pin 15 and CN3001 pin 1 and between IC2201 pin 4 and CN3001 pin 3.
IC2251 pin 15 → Q2254 → S2202 pin 1 → CN3001 pin 1 CVBS/Y signal
IC2251 pin 4 → S2202 pin 3 → CN3001 pin 3 C signal

YES →

Is video signal input to each pin of IC3502?
IC3502 pin 23 CVBS/Y signal
IC3502 pin 8 C signal

NO → Check lines between pins of CN3001 and IC3502 as well as circuits on lines.
CN3001 pin 1 → Q3502, 3505, 3501 → IC3502 pin 23 CVBS/Y signal
CN3001 pin 3 → Q3512, 3514, 3516 → IC3502 pin 8 C signal

YES → ③

③

Are D_3.3V (1) and A_3.3V applied to each pin of IC3502?

NO → Check D_3.3V (1) and A_3.3V lines.

YES → Is 1.8V applied to each pin of IC3502?

NO → Check 1.8V line, 1.8VREG.IC3504 and peripheral circuits.

YES → After power on, is IC3502 pin 34 YCDEC_RST line at "L" level and changed to "H" level?

NO → Check YCDEC_RST line.

YES → Is digital data VDI_656 [0-7] output to each pin of IC3502?
IC 3502 pins 43,44,45,46,47,50,51, and 52 VDI_656 [0-7]

NO → Check IC3502 and peripheral circuits.

YES → Is digital data VDI_656 [0-7] input to each pin of IC7508?
IC7508 pins 49,50,51,143,227,228,229,and 305 VDI_656 [0-7]

NO → Check lines between pins of IC3502 and IC7508 as well as circuits on lines.
IC 3502 pins 43,44,45,46,47,50,51, and 52 → IC7508 pins 49,50,51,143,227,228,229,and 305.

YES → Are signals VIDICLK, input to IC7508?
IC7508 pin 144 VIDICLK.

NO → Check VIDICLK.

YES → Is video signal output to each pin of IC7508?
IC7508 pin 236 (Q7506 B) Y(VAY)
IC7508 pin 235 (Q7505 B) C(VAC)
IC7508 pin 62 (Q7501 B) G/Y(VAG)
IC7508 pin 153 (Q7503 B) B/U(VAB)
IC7508 pin 61 (Q7502 B) R/V(VAR)

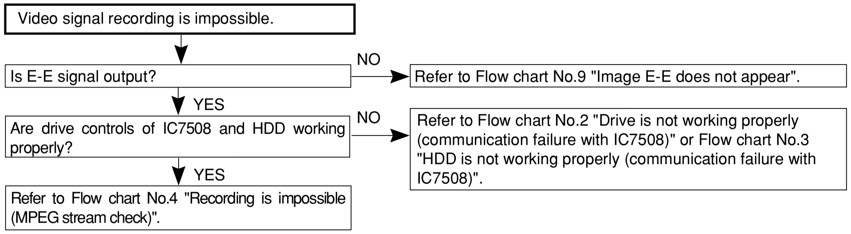
NO → Check IC7508 and peripheral circuits.

YES → Is video signal output to each pin of CN3001?
CN3001 pin 25 _Y
CN3001 pin 27 _C
CN3001 pin 24 _V
CN3001 pin 20 _G/Y
CN3001 pin 21 _B/U
CN3001 pin 22 _R/V

NO → Check lines between pins of IC7508 and CN3001 as well as circuits on lines.
IC7508 pin 235 → Q7505 → CN3001 pin 27_C
IC7508 pin 62 → Q7501 → CN3001 pin 20_G/Y
IC7508 pin 153 → Q7503 → CN3001 pin 21_B/U
IC7508 pin 61 → Q7502 → CN3001 pin 22_R/V

YES → Refer to Flow chart No.6/No.7 "Playback images do not appear properly".

FLOW CHART No.10



Video signal recording is impossible.

Is E-E signal output?

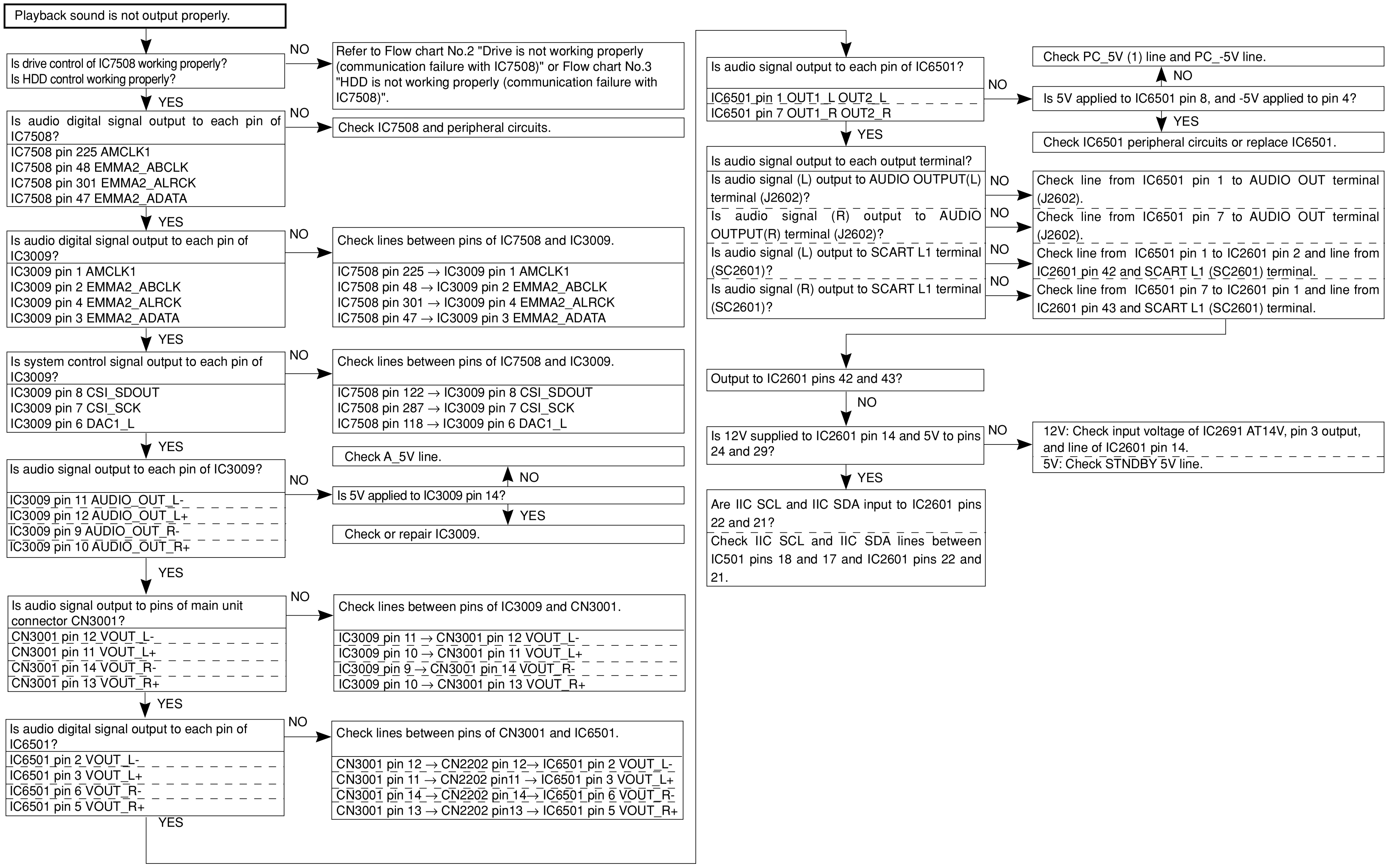
NO → Refer to Flow chart No.9 "Image E-E does not appear".

YES → Are drive controls of IC7508 and HDD working properly?

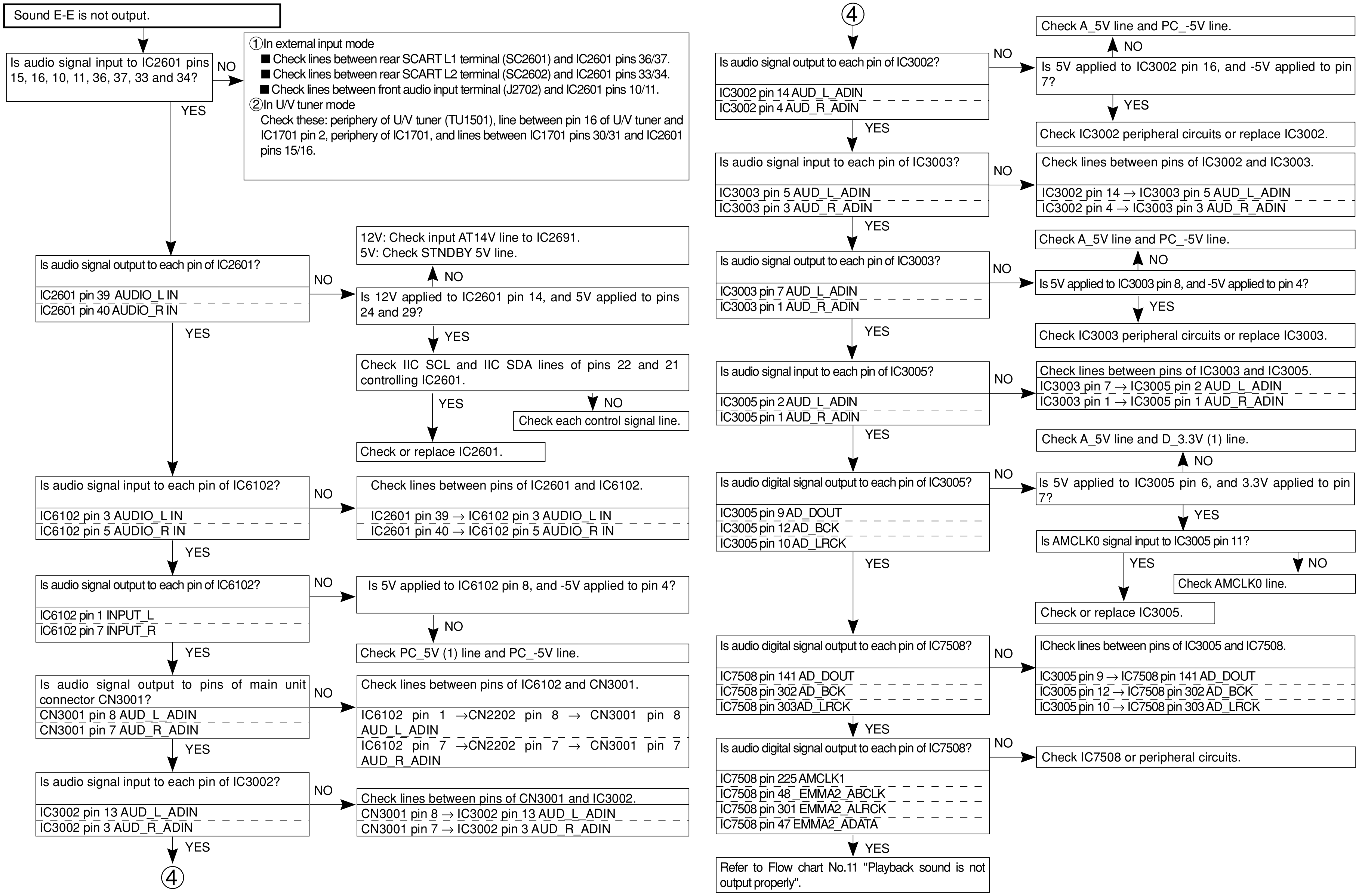
NO → Refer to Flow chart No.2 "Drive is not working properly (communication failure with IC7508)" or Flow chart No.3 "HDD is not working properly (communication failure with IC7508)".

YES → Refer to Flow chart No.4 "Recording is impossible (MPEG stream check)".

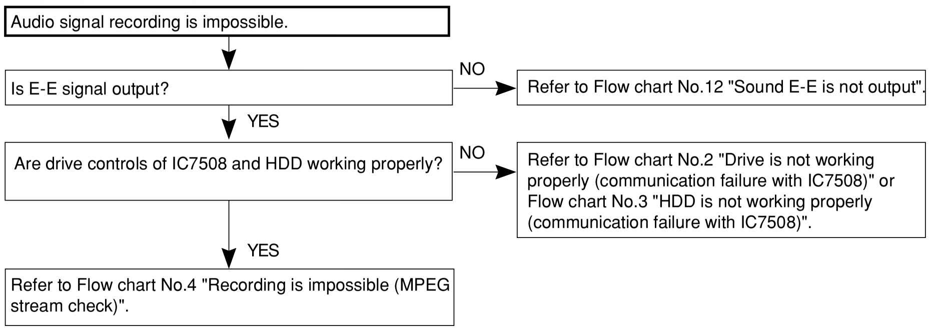
FLOW CHART No.11


Playback sound is not output properly.
Is drive control of IC7508 working properly?
Is HDD control working properly?
NO
Refer to Flow chart No.2 "Drive is not working properly (communication failure with IC7508)" or Flow chart No.3 "HDD is not working properly (communication failure with IC7508)".
YES
Is audio digital signal output to each pin of IC7508?
IC7508 pin 225 AMCLK1
IC7508 pin 48 EMMA2_ABCLK
IC7508 pin 301 EMMA2_ALRCK
IC7508 pin 47 EMMA2_ADATA
NO
Check IC7508 and peripheral circuits.
YES
Is audio digital signal output to each pin of IC3009?
IC3009 pin 1 AMCLK1
IC3009 pin 2 EMMA2_ABCLK
IC3009 pin 4 EMMA2_ALRCK
IC3009 pin 3 EMMA2_ADATA
NO
Check lines between pins of IC7508 and IC3009.
IC7508 pin 225 → IC3009 pin 1 AMCLK1
IC7508 pin 48 → IC3009 pin 2 EMMA2_ABCLK
IC7508 pin 301 → IC3009 pin 4 EMMA2_ALRCK
IC7508 pin 47 → IC3009 pin 3 EMMA2_ADATA
YES
Is system control signal output to each pin of IC3009?
IC3009 pin 8 CSI_SDOUT
IC3009 pin 7 CSI_SCK
IC3009 pin 6 DAC1_L
NO
Check lines between pins of IC7508 and IC3009.
IC7508 pin 122 → IC3009 pin 8 CSI_SDOUT
IC7508 pin 287 → IC3009 pin 7 CSI_SCK
IC7508 pin 118 → IC3009 pin 6 DAC1_L
YES
Is audio signal output to each pin of IC3009?
IC3009 pin 11 AUDIO_OUT_L-
IC3009 pin 12 AUDIO_OUT_L+
IC3009 pin 9 AUDIO_OUT_R-
IC3009 pin 10 AUDIO_OUT_R+
NO
Is 5V applied to IC3009 pin 14?
NO
Check A_5V line.
YES
Check or repair IC3009.
YES
Is audio signal output to pins of main unit connector CN3001?
CN3001 pin 12 VOUT_L-
CN3001 pin 11 VOUT_L+
CN3001 pin 14 VOUT_R-
CN3001 pin 13 VOUT_R+
NO
Check lines between pins of IC3009 and CN3001.
IC3009 pin 11 → CN3001 pin 12 VOUT_L-
IC3009 pin 10 → CN3001 pin 11 VOUT_L+
IC3009 pin 9 → CN3001 pin 14 VOUT_R-
IC3009 pin 10 → CN3001 pin 13 VOUT_R+
YES
Is audio digital signal output to each pin of IC6501?
IC6501 pin 2 VOUT_L-
IC6501 pin 3 VOUT_L+
IC6501 pin 6 VOUT_R-
IC6501 pin 5 VOUT_R+
NO
Check lines between pins of CN3001 and IC6501.
CN3001 pin 12 → CN2202 pin 12→ IC6501 pin 2 VOUT_L-
CN3001 pin 11 → CN2202 pin11 → IC6501 pin 3 VOUT_L+
CN3001 pin 14 → CN2202 pin 14→ IC6501 pin 6 VOUT_R-
CN3001 pin 13 → CN2202 pin13 → IC6501 pin 5 VOUT_R+
YES
Is audio signal output to each pin of IC6501?
IC6501 pin 1 OUT1_L OUT2_L
IC6501 pin 7 OUT1_R OUT2_R
NO
Is 5V applied to IC6501 pin 8, and -5V applied to pin 4?
NO
Check PC_5V (1) line and PC_-5V line.
YES
Check IC6501 peripheral circuits or replace IC6501.
YES
Is audio signal output to each output terminal?
Is audio signal (L) output to AUDIO OUTPUT(L) terminal (J2602)?
NO
Check line from IC6501 pin 1 to AUDIO OUT terminal (J2602).
Is audio signal (R) output to AUDIO OUTPUT(R) terminal (J2602)?
NO
Check line from IC6501 pin 7 to AUDIO OUT terminal (J2602).
Is audio signal (L) output to SCART L1 terminal (SC2601)?
NO
Check line from IC6501 pin 1 to IC2601 pin 2 and line from IC2601 pin 42 and SCART L1 (SC2601) terminal.
Is audio signal (R) output to SCART L1 terminal (SC2601)?
NO
Check line from IC6501 pin 7 to IC2601 pin 1 and line from IC2601 pin 43 and SCART L1 (SC2601) terminal.
Output to IC2601 pins 42 and 43?
NO
Is 12V supplied to IC2601 pin 14 and 5V to pins 24 and 29?
NO
12V: Check input voltage of IC2691 AT14V, pin 3 output, and line of IC2601 pin 14.
5V: Check STNDBY 5V line.
YES
Are IIC SCL and IIC SDA input to IC2601 pins 22 and 21?
Check IIC SCL and IIC SDA lines between IC501 pins 18 and 17 and IC2601 pins 22 and 21.

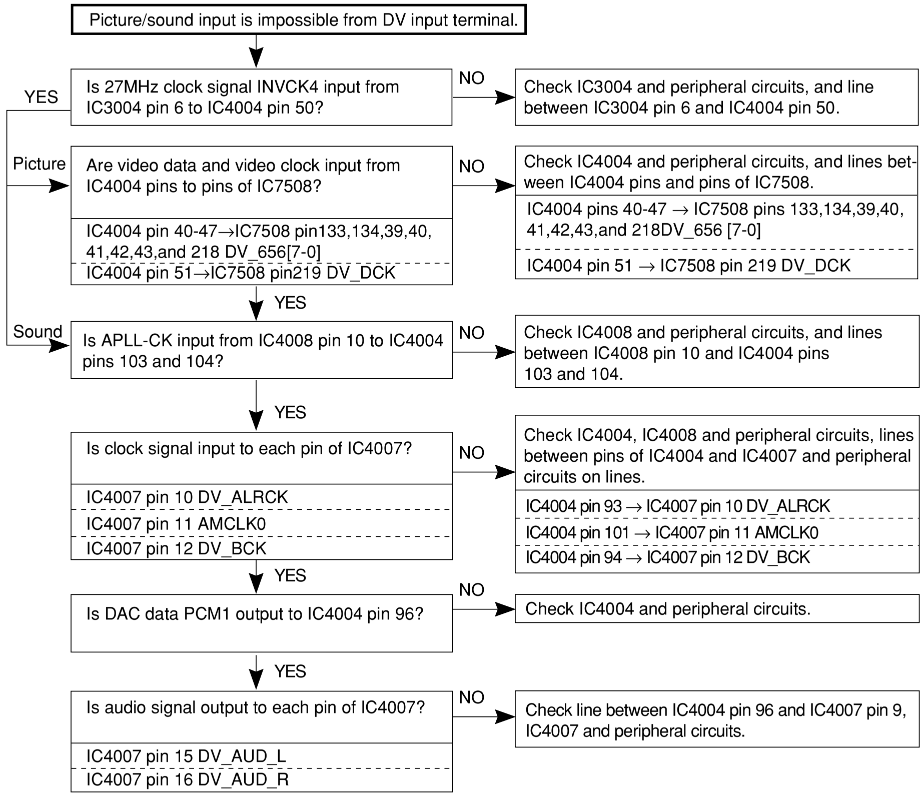
FLOW CHART No.12


Sound E-E is not output.
Is audio signal input to IC2601 pins 15, 16, 10, 11, 36, 37, 33 and 34?
NO
①In external input mode
■ Check lines between rear SCART L1 terminal (SC2601) and IC2601 pins 36/37.
■ Check lines between rear SCART L2 terminal (SC2602) and IC2601 pins 33/34.
■ Check lines between front audio input terminal (J2702) and IC2601 pins 10/11.
②In U/V tuner mode
Check these: periphery of U/V tuner (TU1501), line between pin 16 of U/V tuner and IC1701 pin 2, periphery of IC1701, and lines between IC1701 pins 30/31 and IC2601 pins 15/16.
YES
Is audio signal output to each pin of IC2601?
IC2601 pin 39 AUDIO_L IN
IC2601 pin 40 AUDIO_R IN
NO
Is 12V applied to IC2601 pin 14, and 5V applied to pins 24 and 29?
NO
12V: Check input AT14V line to IC2691.
5V: Check STNDBY 5V line.
YES
Check IIC SCL and IIC SDA lines of pins 22 and 21 controlling IC2601.
YES
Check or replace IC2601.
NO
Check each control signal line.
YES
Is audio signal input to each pin of IC6102?
IC6102 pin 3 AUDIO_L IN
IC6102 pin 5 AUDIO_R IN
NO
Check lines between pins of IC2601 and IC6102.
IC2601 pin 39 → IC6102 pin 3 AUDIO_L IN
IC2601 pin 40 → IC6102 pin 5 AUDIO_R IN
YES
Is audio signal output to each pin of IC6102?
IC6102 pin 1 INPUT_L
IC6102 pin 7 INPUT_R
NO
Is 5V applied to IC6102 pin 8, and -5V applied to pin 4?
NO
Check PC_5V (1) line and PC_-5V line.
YES
Is audio signal output to pins of main unit connector CN3001?
CN3001 pin 8 AUD_L_ADIN
CN3001 pin 7 AUD_R_ADIN
NO
Check lines between pins of IC6102 and CN3001.
IC6102 pin 1 →CN2202 pin 8 → CN3001 pin 8 AUD_L_ADIN
IC6102 pin 7 →CN2202 pin 7 → CN3001 pin 7 AUD_R_ADIN
YES
Is audio signal input to each pin of IC3002?
IC3002 pin 13 AUD_L_ADIN
IC3002 pin 3 AUD_R_ADIN
NO
Check lines between pins of CN3001 and IC3002.
CN3001 pin 8 → IC3002 pin 13 AUD_L_ADIN
CN3001 pin 7 → IC3002 pin 3 AUD_R_ADIN
YES
④
④
Is audio signal output to each pin of IC3002?
IC3002 pin 14 AUD_L_ADIN
IC3002 pin 4 AUD_R_ADIN
NO
Is 5V applied to IC3002 pin 16, and -5V applied to pin 7?
NO
Check A_5V line and PC_-5V line.
YES
Check IC3002 peripheral circuits or replace IC3002.
YES
Is audio signal input to each pin of IC3003?
IC3003 pin 5 AUD_L_ADIN
IC3003 pin 3 AUD_R_ADIN
NO
Check lines between pins of IC3002 and IC3003.
IC3002 pin 14 → IC3003 pin 5 AUD_L_ADIN
IC3002 pin 4 → IC3003 pin 3 AUD_R_ADIN
YES
Is audio signal output to each pin of IC3003?
IC3003 pin 7 AUD_L_ADIN
IC3003 pin 1 AUD_R_ADIN
NO
Is 5V applied to IC3003 pin 8, and -5V applied to pin 4?
NO
Check A_5V line and PC_-5V line.
YES
Check IC3003 peripheral circuits or replace IC3003.
YES
Is audio signal input to each pin of IC3005?
IC3005 pin 2 AUD_L_ADIN
IC3005 pin 1 AUD_R_ADIN
NO
Check lines between pins of IC3003 and IC3005.
IC3003 pin 7 → IC3005 pin 2 AUD_L_ADIN
IC3003 pin 1 → IC3005 pin 1 AUD_R_ADIN
YES
Is audio digital signal output to each pin of IC3005?
IC3005 pin 9 AD_DOUT
IC3005 pin 12 AD_BCK
IC3005 pin 10 AD_LRCK
NO
Is 5V applied to IC3005 pin 6, and 3.3V applied to pin 7?
NO
Check A_5V line and D_3.3V (1) line.
YES
Is AMCLK0 signal input to IC3005 pin 11?
YES
Check or replace IC3005.
NO
Check AMCLK0 line.
YES
Is audio digital signal output to each pin of IC7508?
IC7508 pin 141 AD_DOUT
IC7508 pin 302 AD_BCK
IC7508 pin 303AD_LRCK
NO
ICheck lines between pins of IC3005 and IC7508.
IC3005 pin 9 → IC7508 pin 141 AD_DOUT
IC3005 pin 12 → IC7508 pin 302 AD_BCK
IC3005 pin 10 → IC7508 pin 303 AD_LRCK
YES
Is audio digital signal output to each pin of IC7508?
IC7508 pin 225 AMCLK1
IC7508 pin 48 EMMA2_ABCLK
IC7508 pin 301 EMMA2_ALRCK
IC7508 pin 47 EMMA2_ADATA
NO
Check IC7508 or peripheral circuits.
YES
Refer to Flow chart No.11 "Playback sound is not output properly".

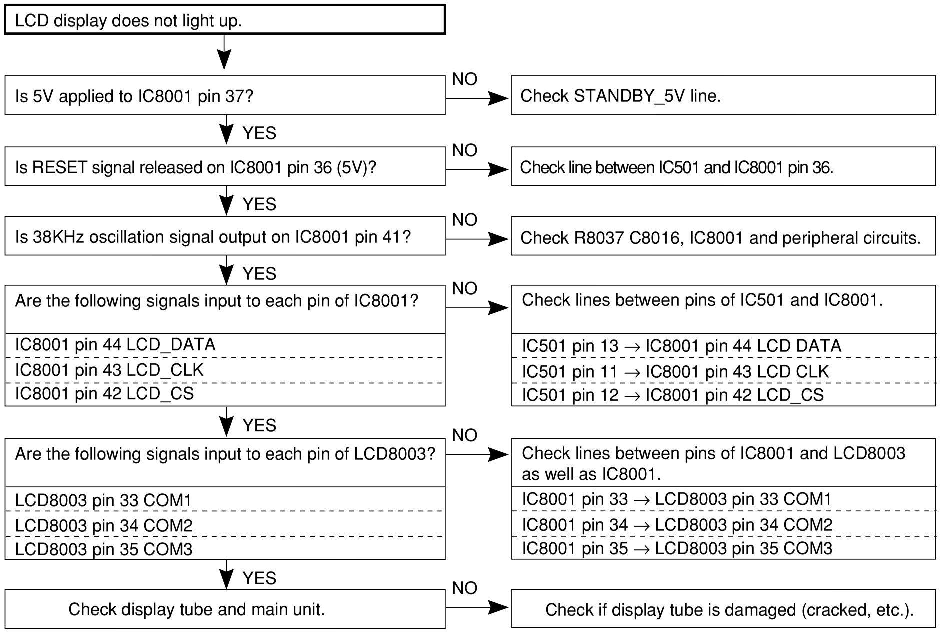
FLOW CHART No.13


Audio signal recording is impossible.
Is E-E signal output?
NO
Refer to Flow chart No.12 "Sound E-E is not output".
YES
Are drive controls of IC7508 and HDD working properly?
NO
Refer to Flow chart No.2 "Drive is not working properly (communication failure with IC7508)" or Flow chart No.3 "HDD is not working properly (communication failure with IC7508)".
YES
Refer to Flow chart No.4 "Recording is impossible (MPEG stream check)".

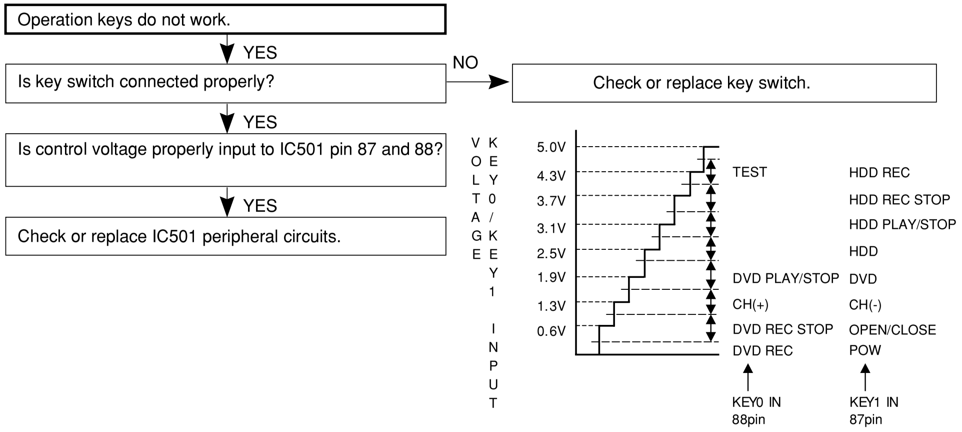
FLOW CHART No.14


Picture/sound input is impossible from DV input terminal.
Is 27MHz clock signal INVCK4 input from IC3004 pin 6 to IC4004 pin 50?
NO
Check IC3004 and peripheral circuits, and line between IC3004 pin 6 and IC4004 pin 50.
YES
Picture
Are video data and video clock input from IC4004 pins to pins of IC7508?
IC4004 pin 40-47→IC7508 pin133,134,39,40, 41,42,43,and 218 DV_656[7-0]
IC4004 pin 51→IC7508 pin219 DV_DCK
NO
Check IC4004 and peripheral circuits, and lines between IC4004 pins and pins of IC7508.
IC4004 pins 40-47 → IC7508 pins 133,134,39,40, 41,42,43,and 218DV_656 [7-0]
IC4004 pin 51 → IC7508 pin 219 DV_DCK
YES
Sound
Is APLL-CK input from IC4008 pin 10 to IC4004 pins 103 and 104?
NO
Check IC4008 and peripheral circuits, and lines between IC4008 pin 10 and IC4004 pins 103 and 104.
YES
Is clock signal input to each pin of IC4007?
IC4007 pin 10 DV_ALRCK
IC4007 pin 11 AMCLK0
IC4007 pin 12 DV_BCK
NO
Check IC4004, IC4008 and peripheral circuits, lines between pins of IC4004 and IC4007 and peripheral circuits on lines.
IC4004 pin 93 → IC4007 pin 10 DV_ALRCK
IC4004 pin 101 → IC4007 pin 11 AMCLK0
IC4004 pin 94 → IC4007 pin 12 DV_BCK
YES
Is DAC data PCM1 output to IC4004 pin 96?
NO
Check IC4004 and peripheral circuits.
YES
Is audio signal output to each pin of IC4007?
IC4007 pin 15 DV_AUD_L
IC4007 pin 16 DV_AUD_R
NO
Check line between IC4004 pin 96 and IC4007 pin 9, IC4007 and peripheral circuits.

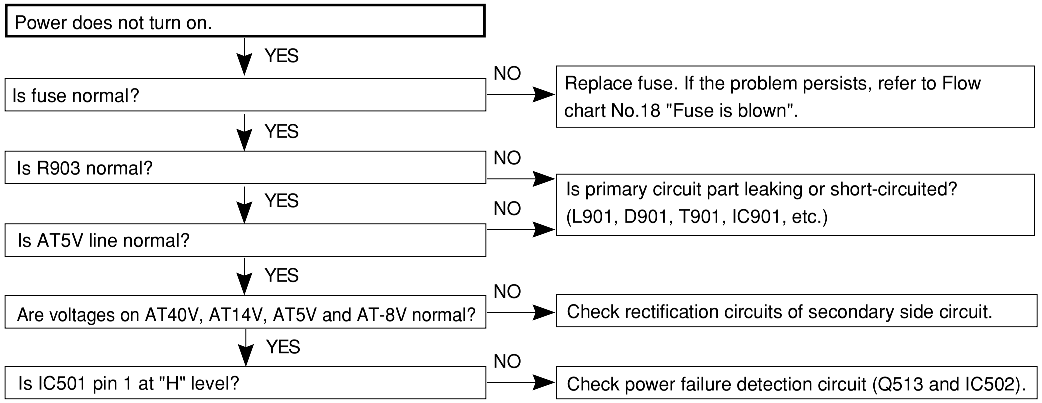
FLOW CHART No.15


LCD display does not light up.
Is 5V applied to IC8001 pin 37?
NO
Check STANDBY_5V line.
YES
Is RESET signal released on IC8001 pin 36 (5V)?
NO
Check line between IC501 and IC8001 pin 36.
YES
Is 38KHz oscillation signal output on IC8001 pin 41?
NO
Check R8037 C8016, IC8001 and peripheral circuits.
YES
Are the following signals input to each pin of IC8001?
IC8001 pin 44 LCD_DATA
IC8001 pin 43 LCD_CLK
IC8001 pin 42 LCD_CS
NO
Check lines between pins of IC501 and IC8001.
IC501 pin 13 → IC8001 pin 44 LCD DATA
IC501 pin 11 → IC8001 pin 43 LCD CLK
IC501 pin 12 → IC8001 pin 42 LCD_CS
YES
Are the following signals input to each pin of LCD8003?
LCD8003 pin 33 COM1
LCD8003 pin 34 COM2
LCD8003 pin 35 COM3
NO
Check lines between pins of IC8001 and LCD8003 as well as IC8001.
IC8001 pin 33 → LCD8003 pin 33 COM1
IC8001 pin 34 → LCD8003 pin 34 COM2
IC8001 pin 35 → LCD8003 pin 35 COM3
YES
Check display tube and main unit.
NO
Check if display tube is damaged (cracked, etc.).

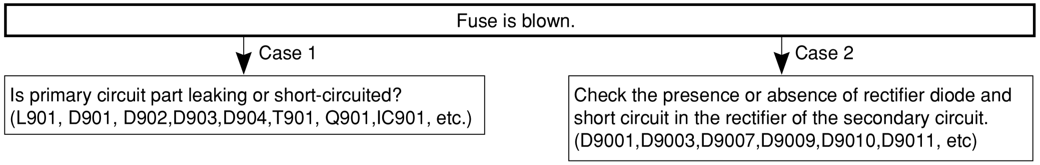
FLOW CHART No.16


Operation keys do not work.
YES
Is key switch connected properly?
NO
Check or replace key switch.
YES
Is control voltage properly input to IC501 pin 87 and 88?
YES
Check or replace IC501 peripheral circuits.
VOLTAGE
KEY0/KEY1 INPUT
5.0V
4.3V
3.7V
3.1V
2.5V
1.9V
1.3V
0.6V
TEST
DVD PLAY/STOP
CH(+)
DVD REC STOP
DVD REC
KEY0 IN 88pin
HDD REC
HDD REC STOP
HDD PLAY/STOP
HDD
DVD
CH(-)
OPEN/CLOSE
POW
KEY1 IN 87pin

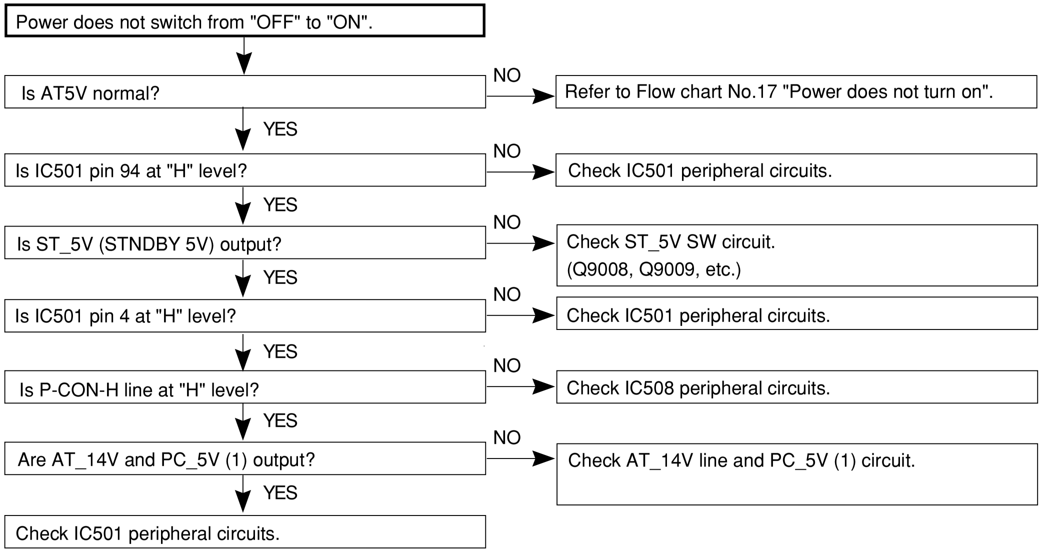
FLOW CHART No.17


Power does not turn on.
YES
Is fuse normal?
NO
Replace fuse. If the problem persists, refer to Flow chart No.18 "Fuse is blown".
YES
Is R903 normal?
NO
Is primary circuit part leaking or short-circuited? (L901, D901, T901, IC901, etc.)
YES
Is AT5V line normal?
NO
YES
Are voltages on AT40V, AT14V, AT5V and AT-8V normal?
NO
Check rectification circuits of secondary side circuit.
YES
Is IC501 pin 1 at "H" level?
NO
Check power failure detection circuit (Q513 and IC502).

FLOW CHART No.18

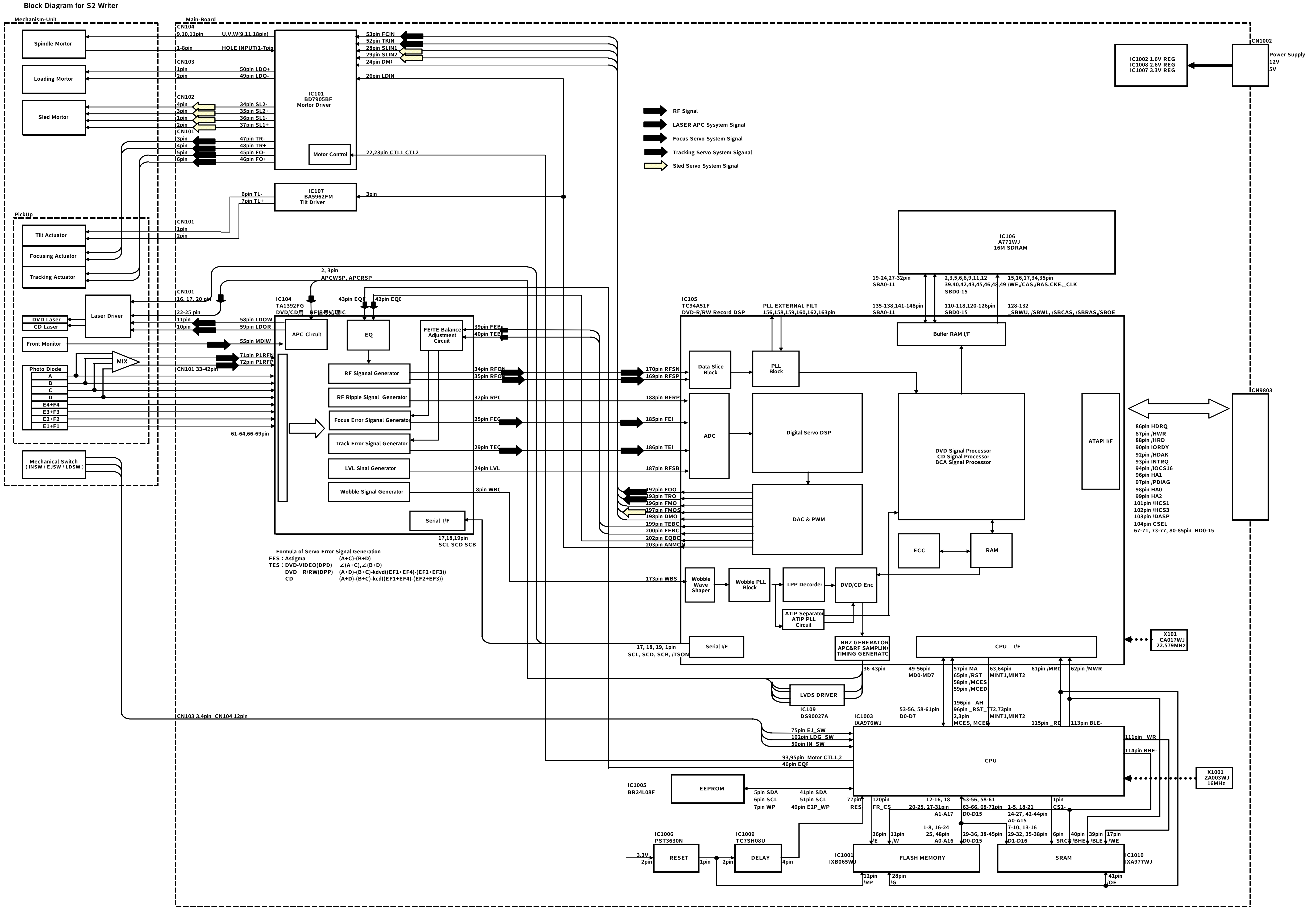

Fuse is blown.
Case 1
Case 2
Is primary circuit part leaking or short-circuited? (L901, D901, D902,D903,D904,T901, Q901,IC901, etc.)
Check the presence or absence of rectifier diode and short circuit in the rectifier of the secondary circuit. (D9001,D9003,D9007,D9009,D9010,D9011, etc)

FLOW CHART No.19

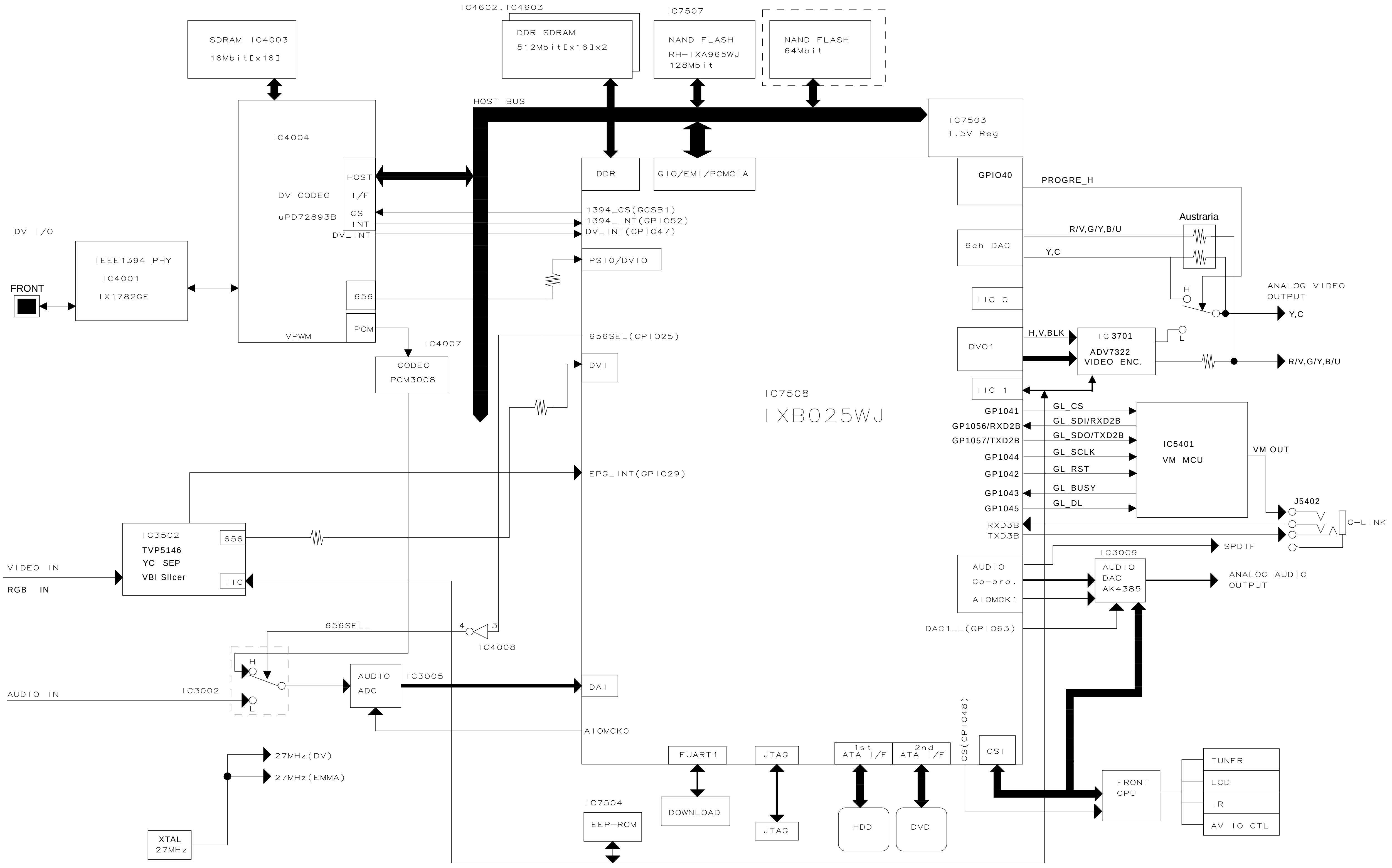

Power does not switch from "OFF" to "ON".
Is AT5V normal?
NO
Refer to Flow chart No.17 "Power does not turn on".
YES
Is IC501 pin 94 at "H" level?
NO
Check IC501 peripheral circuits.
YES
Is ST_5V (STNDBY 5V) output?
NO
Check ST_5V SW circuit. (Q9008, Q9009, etc.)
YES
Is IC501 pin 4 at "H" level?
NO
Check IC501 peripheral circuits.
YES
Is P-CON-H line at "H" level?
NO
Check IC508 peripheral circuits.
YES
Are AT_14V and PC_5V (1) output?
NO
Check AT_14V line and PC_5V (1) circuit.
YES
Check IC501 peripheral circuits.

8. BLOCK DIAGRAMS

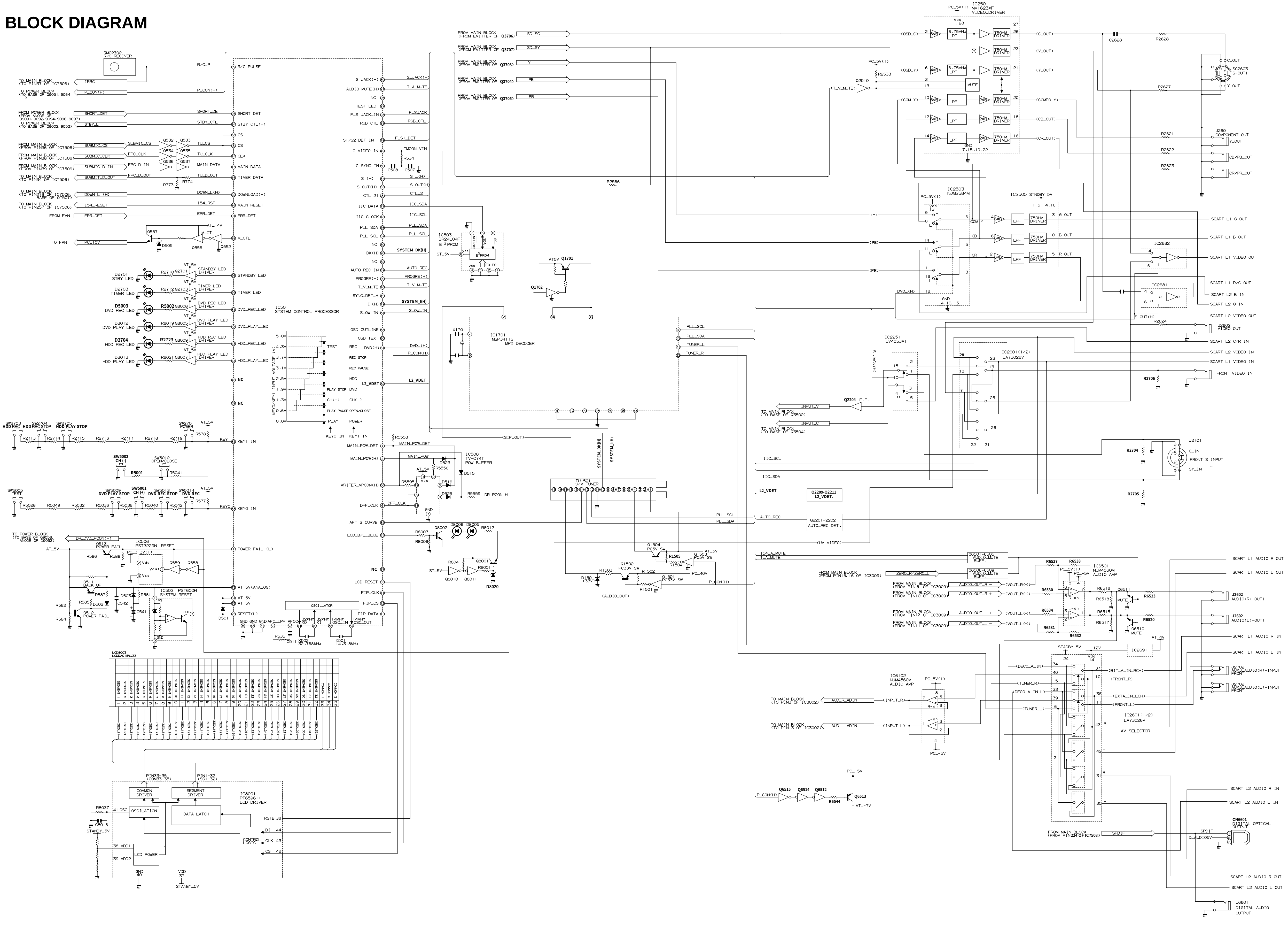
8-1. WRITER MAIN BLOCK DIAGRAM


Block Diagram for S2 Writer
Mechanism-Unit
Main-Board
Spindle Mortor
Loading Mortor
Sled Mortor
PickUp
Tilt Actuator
Focusing Actuator
Tracking Actuator
Laser Driver
DVD Laser
CD Laser
Front Monitor
Photo Diode
A
B
C
D
E4+F4
E3+F3
E2+F2
E1+F1
MIX
Mechanical Switch
(INSW / EJSW / LDSW)
CN104
9,10,11pin
U,V,W(9,11,18pin)
1-8pin
HOLE INPUT(1-7pin
CN103
1pin
2pin
50pin LDO+
49pin LDO-
CN102
4pin
3pin
1pin
2pin
34pin SL2-
35pin SL2+
36pin SL1-
37pin SL1+
CN101
3pin
4pin
5pin
6pin
47pin TR-
48pin TR+
45pin FO-
46pin FO+
IC101
BD7905BF
Mortor Driver
Motor Control
53pin FCIN
52pin TKIN
28pin SLIN1
29pin SLIN2
24pin DMC
26pin LDIN
22,23pin CTL1 CTL2
IC107
BA5962FM
Tilt Driver
6pin TL-
7pin TL+
3pin
CN101
1pin
2pin
2, 3pin
APCWSP, APCRSP
CN101
16, 17, 20 pin
22-25 pin
11pin
10pin
58pin LDOW
59pin LDOR
55pin MDIW
71pin P1RFN
72pin P1RFP
CN101 33-42pin
61-64,66-69pin
IC104
TA1392FG
DVD/CD用 RF信号処理IC
43pin EQF
42pin EQB
APC Circuit
EQ
FE/TE Balance
Adjustment
Circuit
RF Siganal Generator
RF Ripple Signal Generator
Focus Error Siganal Generator
Track Error Signal Generator
LVL Sinal Generator
Wobble Signal Generator
Serial I/F
17,18,19pin
SCL SCD SCB
39pin FEB
40pin TEB
34pin RFON
35pin RFOP
32pin RPC
25pin FEC
29pin TEC
24pin LVL
8pin WBC
Formula of Servo Error Signal Generation
FES : Astigma (A+C)-(B+D)
TES : DVD-VIDEO(DPD) ∠(A+C),∠(B+D)
DVD−R/RW(DPP) (A+D)-(B+C)-kdvd((EF1+EF4)-(EF2+EF3))
CD (A+D)-(B+C)-kcd((EF1+EF4)-(EF2+EF3))
RF Signal
LASER APC Sysytem Signal
Focus Servo System Signal
Tracking Servo System Siganal
Sled Servo System Signal
IC1002 1.6V REG
IC1008 2.6V REG
IC1007 3.3V REG
CN1002
Power Supply
12V
5V
IC106
A771WJ
16M SDRAM
19-24,27-32pin
SBA0-11
2,3,5,6,8,9,11,12
39,40,42,43,45,46,48,49 /WE,/CAS,/RAS,CKE,_CLK
SBD0-15
15,16,17,34,35pin
IC105
TC94A51F
DVD-R/RW Record DSP
PLL EXTERNAL FILT
156,158,159,160,162,163pin
135-138,141-148pin
SBA0-11
110-118,120-126pin
SBD0-15
128-132
_SBWU, /SBWL, /SBCAS, /SBRAS,/SBOE
Buffer RAM I/F
Data Slice
Block
PLL
Block
ADC
Digital Servo DSP
DAC & PWM
DVD Signal Processor
CD Signal Processor
BCA Signal Processor
ATAPI I/F
ECC
RAM
Wobble
Wave
Shaper
Wobble PLL
Block
LPP Decorder
DVD/CD Enc
ATIP Separator
ATIP PLL
Circuit
Serial I/F
NRZ GENERATOR
APC&RF SAMPLING
TIMING GENERATOR
CPU I/F
170pin RFSN
169pin RFSP
188pin RFRP
185pin FEI
186pin TEI
187pin RFSB
192pin FOO
193pin TRO
196pin FMO
197pin FMOS
198pin DMO
199pin TEBC
200pin FEBC
202pin EQBC
203pin ANMON
173pin WBS
17, 18, 19, 1pin
SCL, SCD, SCB, /TSON
CN9803
86pin HDRQ
87pin /HWR
88pin /HRD
90pin IORDY
92pin /HDAK
93pin INTRQ
94pin /IOCS16
96pin HA1
97pin /PDIAG
98pin HA0
99pin HA2
101pin /HCS1
102pin /HCS3
103pin /DASP
104pin CSEL
67-71, 73-77, 80-85pin HD0-15
X101
CA017WJ
22.579MHz
36-43pin
49-56pin
MD0-MD7
57pin MA
65pin /RST
58pin /MCES
59pin /MCED
63,64pin
MINT1,MINT2
61pin /MRD
62pin /MWR
LVDS DRIVER
IC109
DS90027A
IC1003
IXA976WJ
53-56, 58-61pin
D0-D7
196pin _AH
96pin _RST_T
2,3pin
MCES, MCED
72,73pin
MINT1,MINT2
115pin _RD
113pin BLE-
CN103 3,4pin CN104 12pin
75pin EJ_SW
102pin LDG_SW
50pin IN_SW
93,95pin Motor CTL1,2
46pin EQF
CPU
111pin _WR
114pin BHE-
X1001
ZA003WJ
16MHz
IC1005
BR24L08F
EEPROM
5pin SDA
6pin SCL
7pin WP
41pin SDA
51pin SCL
49pin E2P_WP
77pin
RES-
120pin
FR_CS
12-16, 18
20-25, 27-31pin
A1-A17
53-56, 58-61
63-66, 68-71pin
D0-D15
1-5, 18-21
24-27, 42-44pin
A0-A15
7-10, 13-16
29-32, 35-38pin
D1-D16
1pin
CS1-
1-8, 16-24
25, 48pin
A0-A16
29-36, 38-45pin
D0-D15
26pin
/E
11pin
/W
6pin
_SRCS
40pin
/BHE
39pin
/BLE
17pin
/WE
IC1006
PST3630N
3.3V
2pin
RESET
1pin
IC1009
TC7SH08U
2pin
DELAY
4pin
IC1001
IXB065WJ
FLASH MEMORY
SRAM
IC1010
IXA977WJ
12pin
/RP
28pin
/G
41pin
/OE

8-2. MAIN BLOCK DIAGRAM


SDRAM IC4003
16Mbit[x16]
IC4602.IC4603
DDR SDRAM
512Mbit[x16]x2
IC7507
NAND FLASH
RH-IXA965WJ
128Mbit
NAND FLASH
64Mbit
HOST BUS
IC7503
1.5V Reg
IC4004
DV CODEC
uPD72893B
HOST
I/F
CS
INT
DV_INT
656
PCM
VPWM
DV I/O
IEEE1394 PHY
IC4001
IX1782GE
FRONT
IC4007
CODEC
PCM3008
DDR
GIO/EMI/PCMCIA
1394_CS(GCSB1)
1394_INT(GPIO52)
DV_INT(GPIO47)
PSIO/DVIO
656SEL(GPIO25)
DVI
EPG_INT(GPIO29)
DAI
AIOMCK0
IC7508
IXB025WJ
GPIO40
PROGRE_H
6ch DAC
R/V,G/Y,B/U
Y,C
Austraria
H
L
ANALOG VIDEO
OUTPUT
Y,C
R/V,G/Y,B/U
IIC 0
DVO1
H,V,BLK
IC3701
ADV7322
VIDEO ENC.
IIC 1
GP1041
GP1056/RXD2B
GP1057/TXD2B
GP1044
GP1042
GP1043
GP1045
GL_CS
GL_SDI/RXD2B
GL_SDO/TXD2B
GL_SCLK
GL_RST
GL_BUSY
GL_DL
IC5401
VM MCU
VM OUT
J5402
G-LINK
RXD3B
TXD3B
SPDIF
AUDIO
Co-pro.
AIOMCK1
IC3009
AUDIO
DAC
AK4385
ANALOG AUDIO
OUTPUT
DAC1_L(GPIO63)
CS(GPIO48)
CSI
IC3502
TVP5146
YC SEP
VBI Slicer
656
IIC
VIDEO IN
RGB IN
656SEL_
4
3
IC4008
AUDIO IN
IC3002
H
L
AUDIO
ADC
IC3005
27MHz(DV)
27MHz(EMMA)
XTAL
27MHz
IC7504
EEP-ROM
FUART1
DOWNLOAD
JTAG
JTAG
1st
ATA I/F
2nd
ATA I/F
HDD
DVD
FRONT
CPU
TUNER
LCD
IR
AV IO CTL

8-3. SUB BLOCK DIAGRAM


RMC2702 R/C RECEIVER
IC501 SYSTEM CONTROL PROCESSOR
IC503 BR24L04F E2PROM
IC1701 MSP3417G MPX DECODER
TU1501 U/V TUNER
IC508 TVHC74T POW BUFFER
IC506 PST3229N RESET
IC502 PST600H SYSTEM RESET
OSCILLATOR
LCD6003 LCD6A01SWJZZ
IC6001 PT6596++ LCD DRIVER
COMMON DRIVER
SEGMENT DRIVER
OSCILLATION
DATA LATCH
CONTROL LOGIC
LCD POWER
IC2501 MM1623XF VIDEO_DRIVER
6.75MHz LPF
75OHM DRIVER
MUTE
IC2503 NJM2584M
IC2505 STNDBY 5V
IC2682
IC2681
IC2251 LV4053AT
IC2601(1/2) LA73026V
IC2601(1/2) LA73026V AV SELECTOR
IC6501 NJM4560M AUDIO AMP
IC6102 NJM4560M AUDIO AMP
IC2691
J2601 COMPONENT-OUT
SC2603 S-OUT1
J2701 FRONT S INPUT
J2602 AUDIO(R)-OUT1
J2602 AUDIO(L)-OUT1
J2702 AUX3_AUDIO(R)-INPUT FRONT
J2702 AUX3_AUDIO(L)-INPUT FRONT
CN6601 DIGITAL OPTICAL OUTPUT
J6601 DIGITAL AUDIO OUTPUT
SCART L1 G OUT
SCART L1 B OUT
SCART L1 VIDEO OUT
SCART L1 R/C OUT
SCART L2 B IN
SCART L2 G IN
SCART L2 VIDEO OUT
SCART L2 C/R IN
SCART L2 VIDEO IN
SCART L1 VIDEO IN
FRONT VIDEO IN
SCART L1 AUDIO R OUT
SCART L1 AUDIO L OUT
SCART L1 AUDIO R IN
SCART L1 AUDIO L IN
SCART L2 AUDIO R IN
SCART L2 AUDIO L IN
SCART L2 AUDIO R OUT
SCART L2 AUDIO L OUT
Q2209-Q2211 L2_VDET.
Q2201-2202 AUTO_REC DET.
Q6501-6505 AUDIO_MUTE BUFF.
Q6506-6509 AUDIO_MUTE BUFF.

DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. The voltages at test points are measured on the stable supply voltage of AC 220-240V. Signals are fed by a colour bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted. (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (K= ± 10%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/16W, unless otherwise noted.

CAPACITOR

1. All capacitors are µF, unless otherwise noted. (P=pF=µµF).
2. All capacitors are 50V, unless otherwise noted.

CAUTION:

This circuit diagram is original one, therefore there may be a slight difference from yours.

SAFETY NOTES:

1.DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.

2.SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

IMPORTANT SAFETY NOTICE:

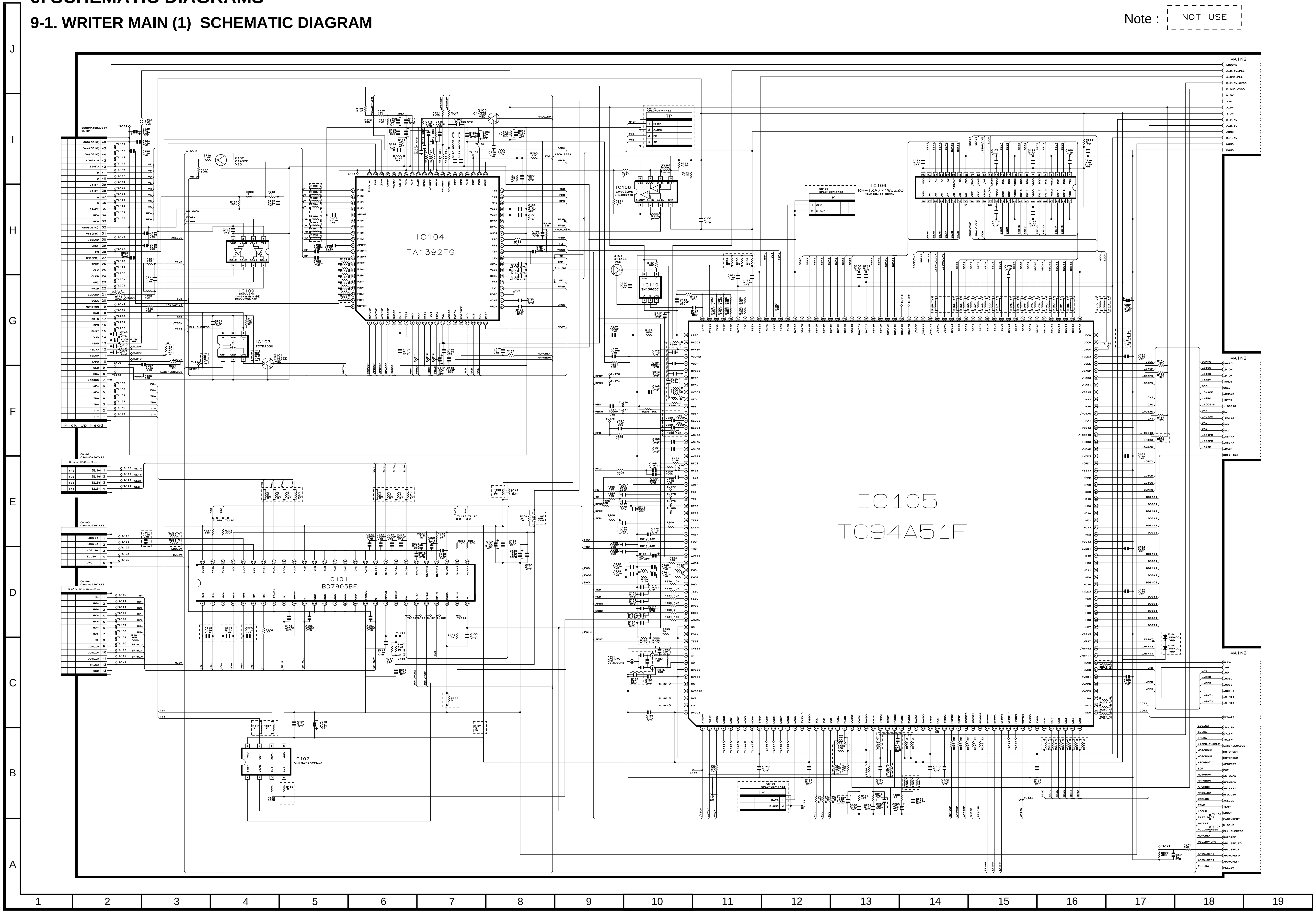
PARTS MARKED WITH "⚠"(▨) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

- M E M O -

9. SCHEMATIC DIAGRAMS

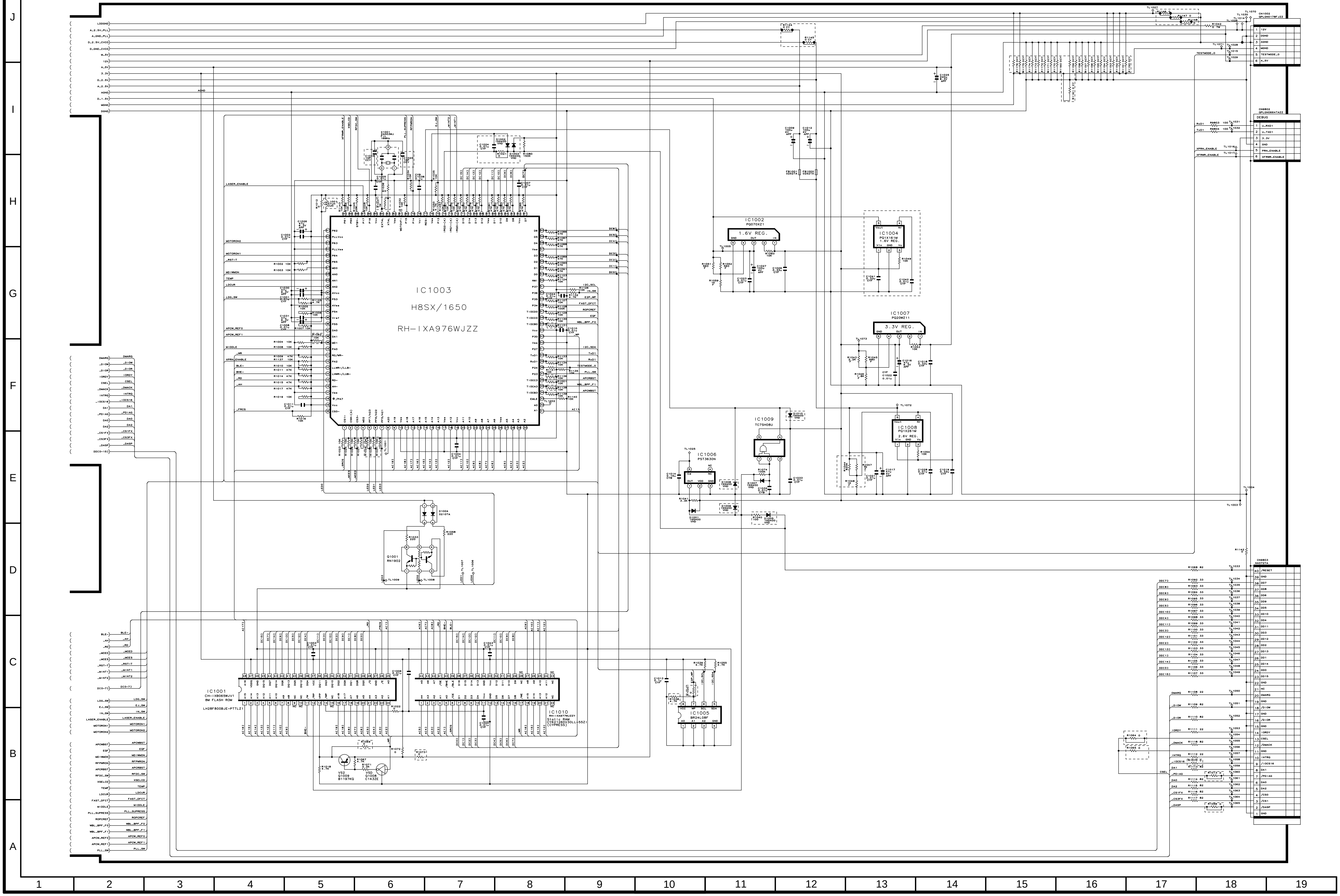
9-1. WRITER MAIN (1) SCHEMATIC DIAGRAM

Note : NOT USE


J
I
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
IC104
TA1392FG
IC105
TC94A51F
IC101
BD7905BF
IC107
VH!BA5962FM-1
IC106
RH-iXA771WJZZQ
IC108
LMV932MM
IC109
IC110
SN1G66DC
IC103
TC7PA53U
Q101
Q102
Q103
Q104
CN101
CN102
CN103
CN104
CN105
CN106
CN107
MAIN2
MAIN2
MAIN2
Pick Up Head
X101

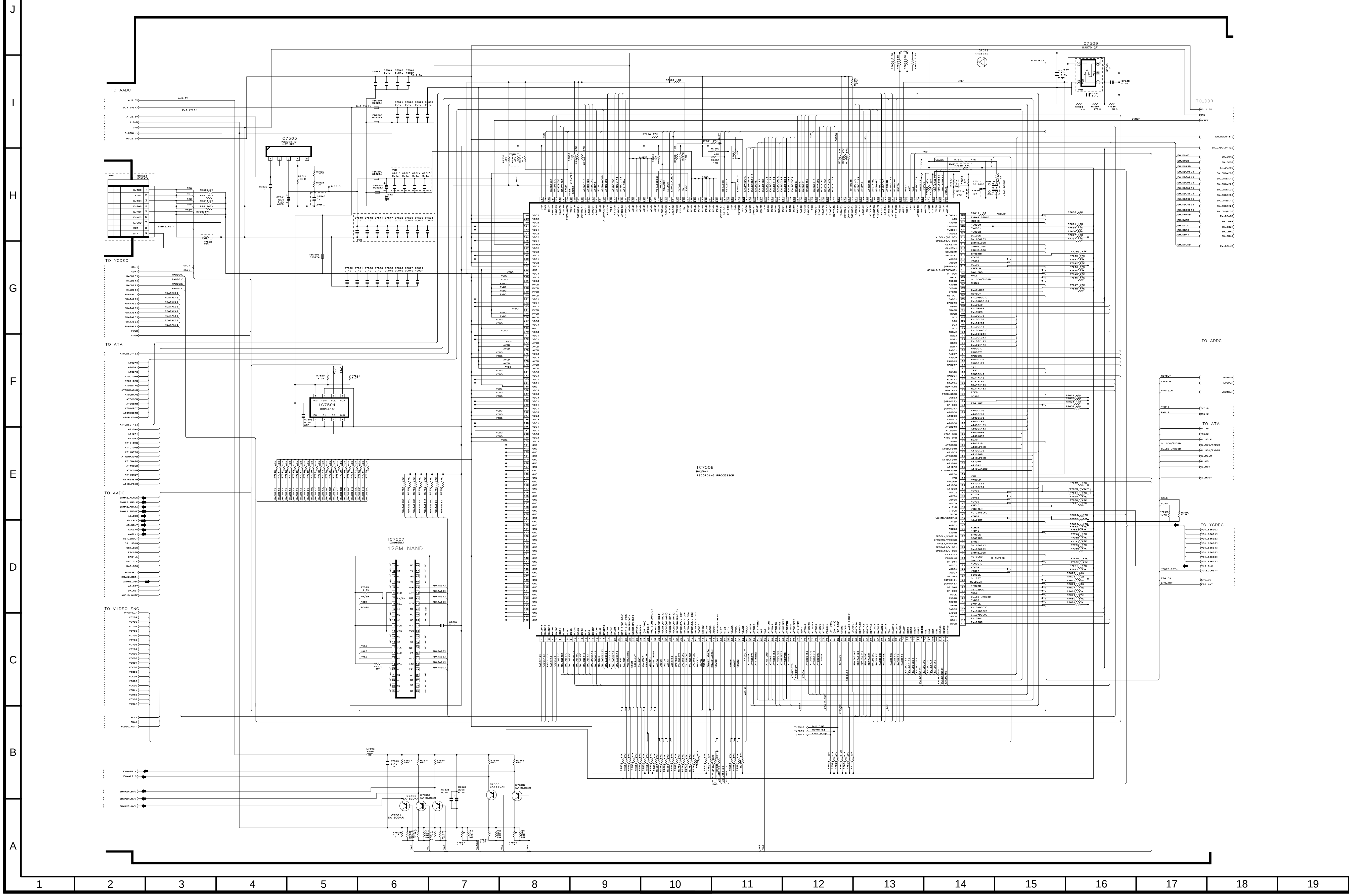
9-2. WRITER MAIN (2) SCHEMATIC DIAGRAM

Note : NOT USE


IC1003
H8SX/1650
RH-IXA976WJZZ
IC1001
CH-IXB065WJV1
8M FLASH ROM
LH28F800BJE-PTTLZ1
IC1010
RH-IXA877WJZZY
Static RAM
CY62126DV30LL-55ZI
(CYPRESS)
IC1002
PQ070XZ1
1.6V REG.
IC1004
PQ1X161M
1.6V REG.
IC1007
PQ20WZ11
3.3V REG.
IC1008
PQ1X281M
2.8V REG.
IC1009
TC7SH08U
IC1006
PST3630N
IC1005
BR24L08F
Q1001
RN1902
D1004
DZ10TA
CN1002
CN9802
DEBUG
CN9803
J
I
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19

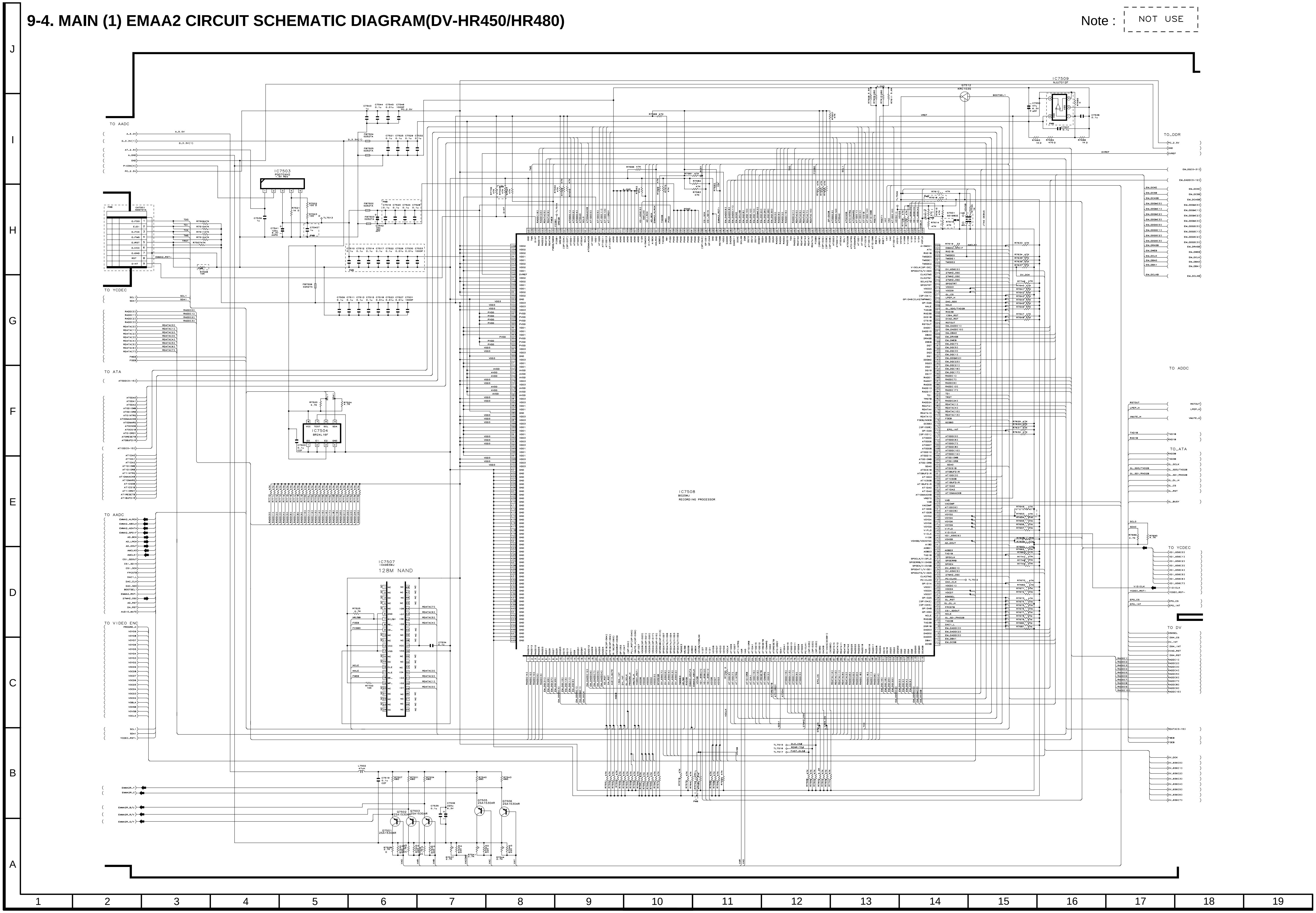
9-3. MAIN (1) EMAA2 CIRCUIT SCHEMATIC DIAGRAM(DV-HR400)

Note : NOT USE


J
I
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
TO AADC
TO YCDEC
TO ATA
TO AADC
TO VIDEO ENC
IC7503
IC7504
BR24L16F
IC7507
128M NAND
IC7508
RECORDING PROCESSOR
IC7509
Q7512
TO_DDR
TO ADDC
TO_ATA
TO YCDEC
Q7501
Q7502
Q7503
Q7505
Q7506
L7502

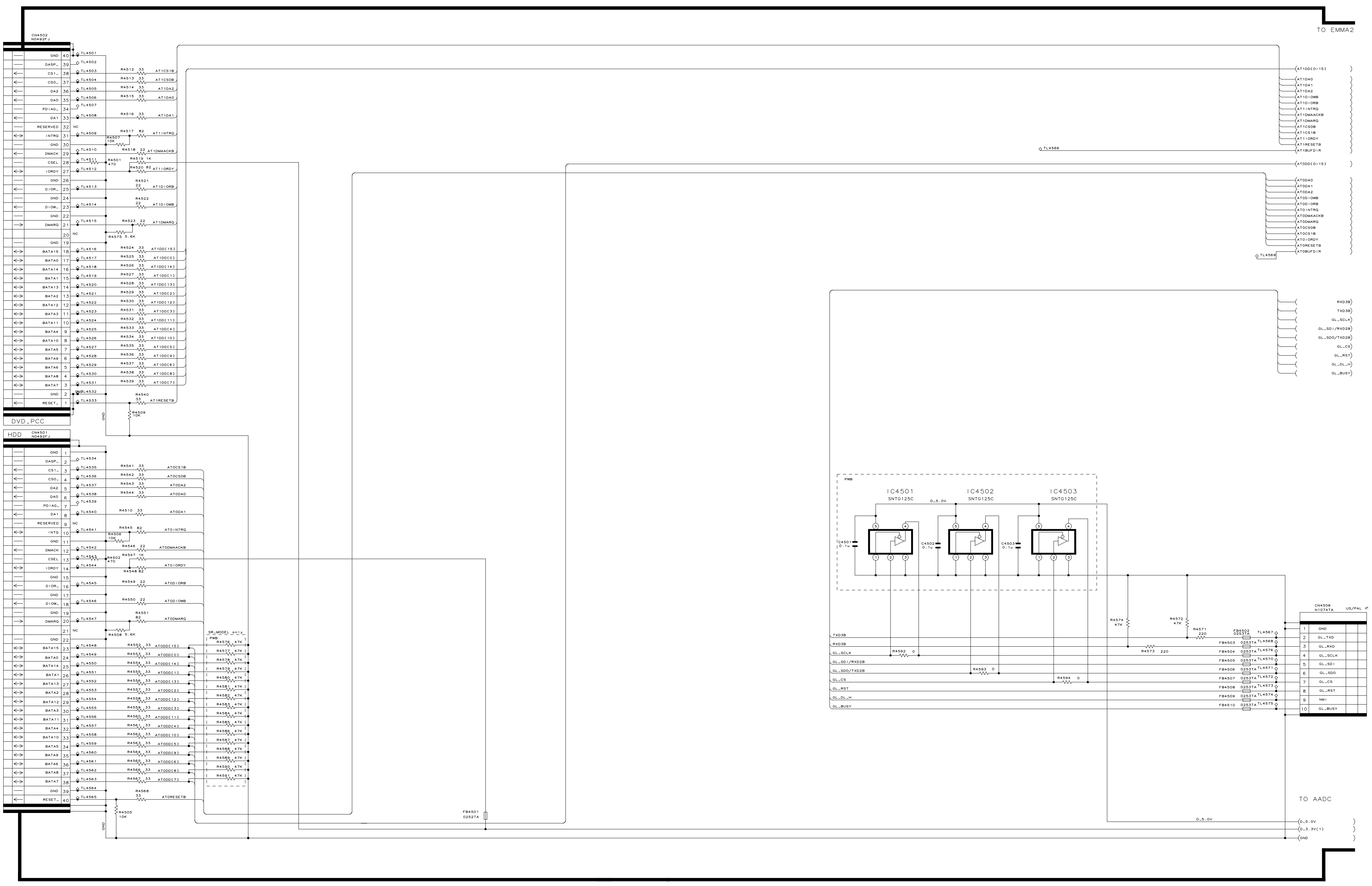
9-4. MAIN (1) EMAA2 CIRCUIT SCHEMATIC DIAGRAM(DV-HR450/HR480)

Note : NOT USE


J
I
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
TO AADC
TO YCDEC
TO ATA
TO AADC
TO VIDEO ENC
IC7503
IC7504
BR24L16F
IC7507
128M NAND
IC7508
RECORDING PROCESSOR
IC7509
TO_DDR
TO ADDC
TO_ATA
TO YCDEC
TO DV

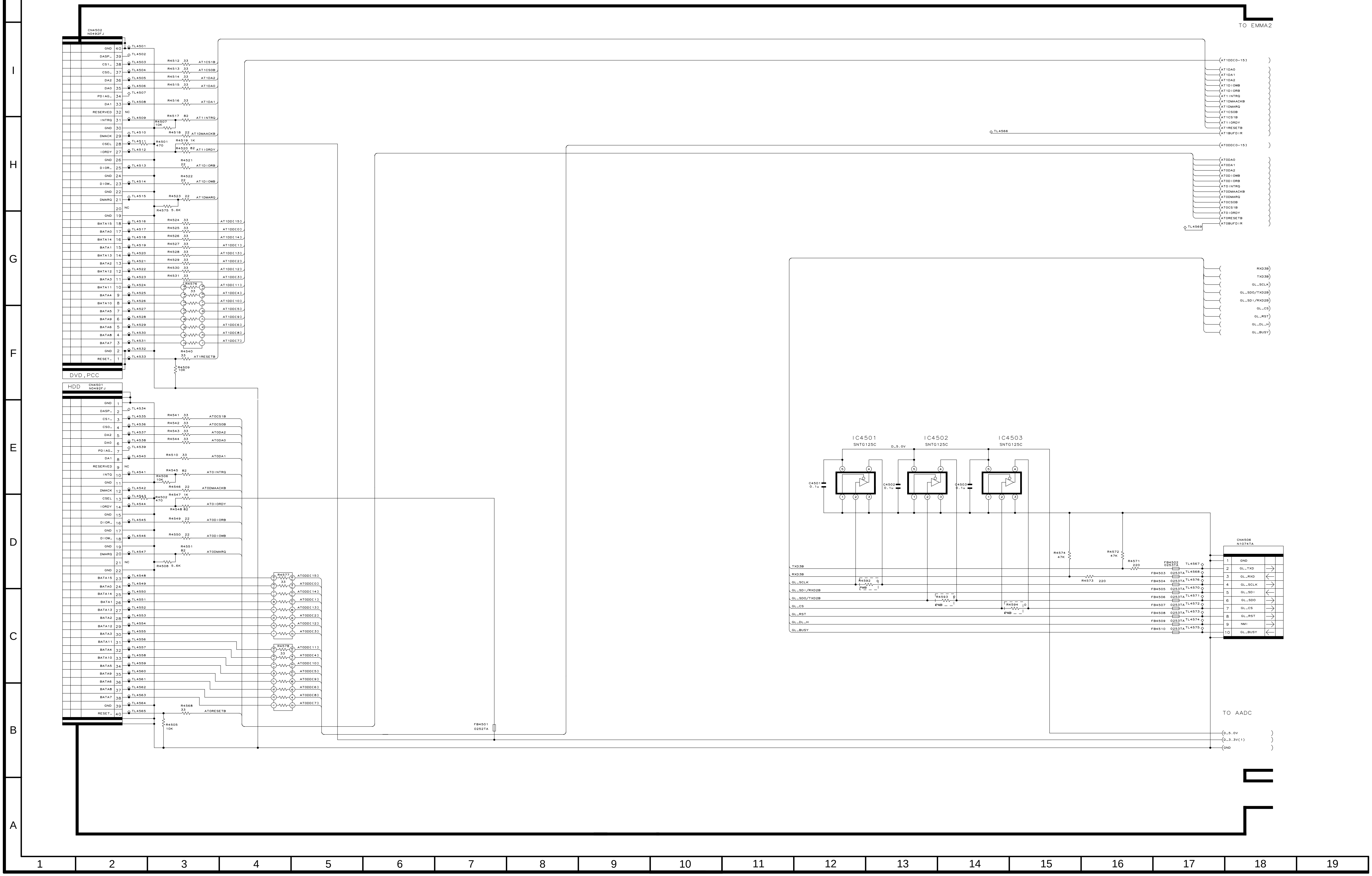
9-5. MAIN (2) ATAPI CIRCUIT SCHEMATIC DIAGRAM(DV-HR400)

Note : NOT USE


TO EMMA2
CN4502
N0492FJ
DVD,PCC
GND 40
DASP_ 39
CS1_ 38
CS0_ 37
DA2 36
DA0 35
PDIAG_ 34
DA1 33
RESERVED 32
INTRQ 31
GND 30
DMACK 29
CSEL 28
IORDY 27
GND 26
DIOR_ 25
GND 24
DIOW_ 23
GND 22
DMARQ 21
20
GND 19
BATA15 18
BATA0 17
BATA14 16
BATA1 15
BATA13 14
BATA2 13
BATA12 12
BATA3 11
BATA11 10
BATA4 9
BATA10 8
BATA5 7
BATA9 6
BATA6 5
BATA8 4
BATA7 3
GND 2
RESET_ 1
NC
R4512 33 AT1CS1B
R4513 33 AT1CS0B
R4514 33 AT1DA2
R4515 33 AT1DA0
R4516 33 AT1DA1
R4517 82 AT1INTRQ
R4507 10K
R4518 22 AT1DMAACKB
R4501 470
R4519 1K
R4520 82 AT1IORDY
R4521 22 AT1DIORB
R4522 22 AT1DIOWB
R4523 22 AT1DMARQ
R4575 5.6K
R4524 33 AT1DD[15]
R4525 33 AT1DD[0]
R4526 33 AT1DD[14]
R4527 33 AT1DD[1]
R4528 33 AT1DD[13]
R4529 33 AT1DD[2]
R4540 33 AT1RESETB
R4509 10K
GND
HDD
CN4501
N0492FJ
GND 1
DASP_ 2
CS1_ 3
CS0_ 4
DA2 5
DA0 6
PDIAG_ 7
DA1 8
RESERVED 9
INTQ 10
GND 11
DMACK 12
CSEL 13
IORDY 14
GND 15
DIOR_ 16
GND 17
DIOW_ 18
GND 19
DMARQ 20
21
GND 22
BATA15 23
BATA0 24
BATA14 25
BATA1 26
BATA13 27
BATA2 28
BATA12 29
BATA3 30
BATA11 31
BATA4 32
BATA10 33
BATA5 34
BATA9 35
BATA6 36
BATA8 37
BATA7 38
GND 39
RESET_ 40
R4541 33 AT0CS1B
R4542 33 AT0CS0B
R4543 33 AT0DA2
R4544 33 AT0DA0
R4510 33 AT0DA1
R4545 82 AT0INTRQ
R4506 10K
R4546 22 AT0DMAACKB
R4502 470
R4547 1K
R4548 82 AT0IORDY
R4549 22 AT0DIORB
R4550 22 AT0DIOWB
R4551 82 AT0DMARQ
R4508 5.6K
R4552 33 AT0DD[15]
R4553 33 AT0DD[0]
R4554 33 AT0DD[14]
R4555 33 AT0DD[1]
R4556 33 AT0DD[13]
R4557 33 AT0DD[2]
R4558 33 AT0DD[12]
R4568 33 AT0RESETB
R4505 10K
SR_MODEL only
PWB
R4576 47K
R4577 47K
R4578 47K
R4579 47K
R4580 47K
R4581 47K
R4582 47K
R4583 47K
FB4501 0252TA
AT1DD[0-15]
AT1DA0
AT1DA1
AT1DA2
AT1DIOWB
AT1DIORB
AT1INTRQ
AT1DMAACKB
AT1DMARQ
AT1CS0B
AT1CS1B
AT1IORDY
AT1RESETB
AT1BUFDIR
TL4566
AT0DD[0-15]
AT0DA0
AT0DA1
AT0DA2
AT0DIOWB
AT0DIORB
AT0INTRQ
AT0DMAACKB
AT0DMARQ
AT0CS0B
AT0CS1B
AT0IORDY
AT0RESETB
AT0BUFDIR
TL4569
RXD3B
TXD3B
GL_SCLK
GL_SDI/RXD2B
GL_SDO/TXD2B
GL_CS
GL_RST
GL_DL_H
GL_BUSY
PWB
IC4501 SNTG125C
IC4502 SNTG125C
IC4503 SNTG125C
D_5.0V
C4501 0.1u
C4502 0.1u
C4503 0.1u
R4574 47K
R4572 47K
R4571 220
R4573 220
R4592 0
R4593 0
R4594 0
FB4502 0253TA
FB4503 0253TA
FB4504 0253TA
FB4505 0253TA
FB4506 0253TA
FB4507 0253TA
FB4508 0253TA
FB4509 0253TA
FB4510 0253TA
CN4506
N1074TA
US/PAL
1 GND
2 GL_TXD
3 GL_RXD
4 GL_SCLK
5 GL_SDI
6 GL_SDO
7 GL_CS
8 GL_RST
9 NMI
10 GL_BUSY
TO AADC
D_5.0V
D_3.3V(1)
GND

9-6. MAIN (2) ATAPI CIRCUIT SCHEMATIC DIAGRAM(DV-HR450/HR480)

Note : NOT USE


CN4502
N0492FJ
DVD_PCC
HDD
CN4501
N0492FJ
TO EMMA2
TO AADC
IC4501
SNTG125C
IC4502
SNTG125C
IC4503
SNTG125C
D_5.0V
C4501 0.1u
C4502 0.1u
C4503 0.1u
CN4506
N1074TA
FB4501
0252TA
GND
DASP_
CS1_
CS0_
DA2
DA0
PDIAG_
DA1
RESERVED
INTRQ
DMACK
CSEL
IORDY
DIOR_
DIOW_
DMARQ
RESET_
AT1DD[0-15]
AT0DD[0-15]
AT1RESETB
AT0RESETB
RXD3B
TXD3B
GL_SCLK
GL_SDO/TXD2B
GL_SDI/RXD2B
GL_CS
GL_RST
GL_DL_H
GL_BUSY
GL_TXD
GL_RXD
GL_SDI
GL_SDO
NMI
D_5.0V
D_3.3V(1)
GND
J
I
H
G
F
E
D
C
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A
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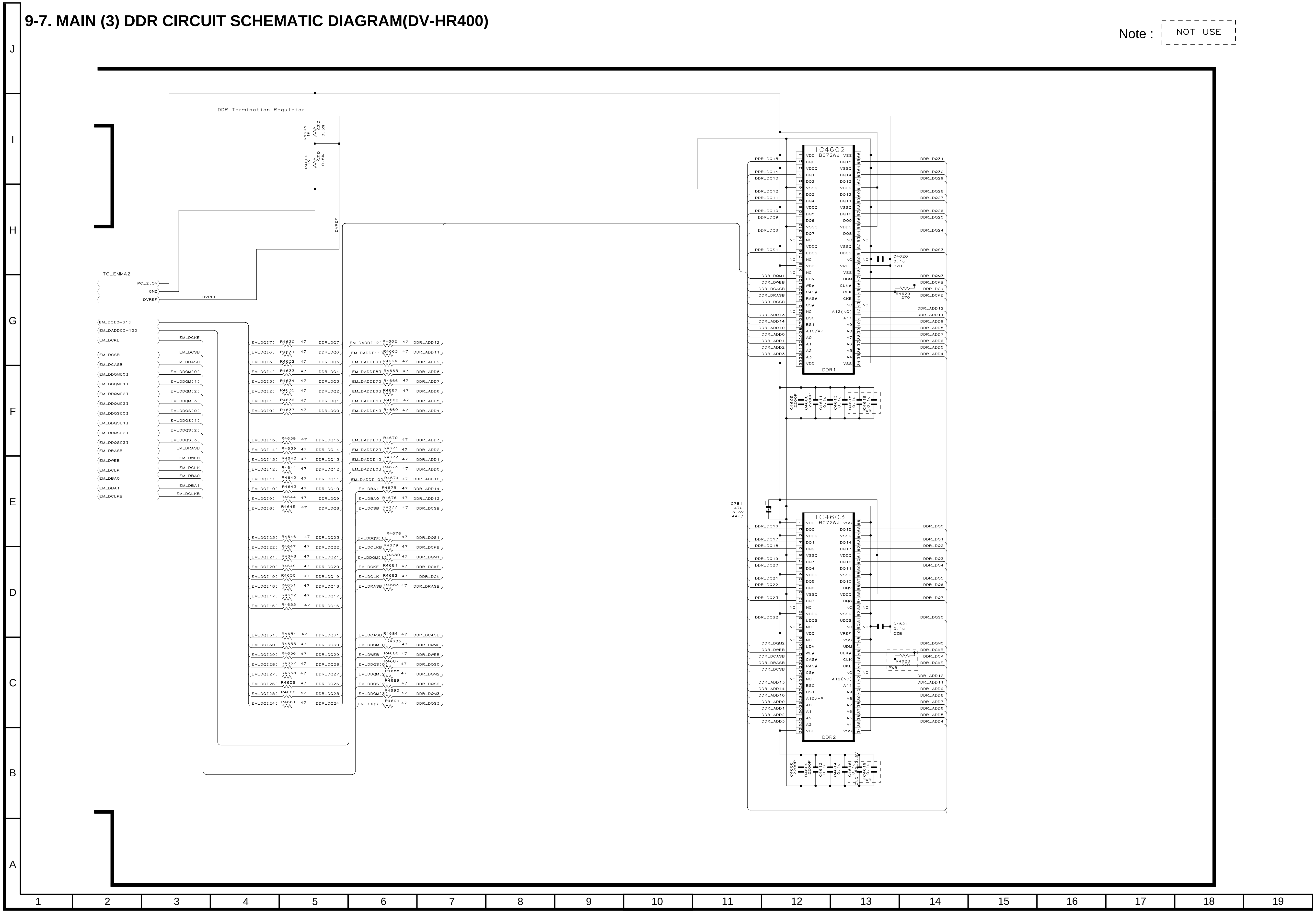
9-7. MAIN (3) DDR CIRCUIT SCHEMATIC DIAGRAM(DV-HR400)

Note : NOT USE


J
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10
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12
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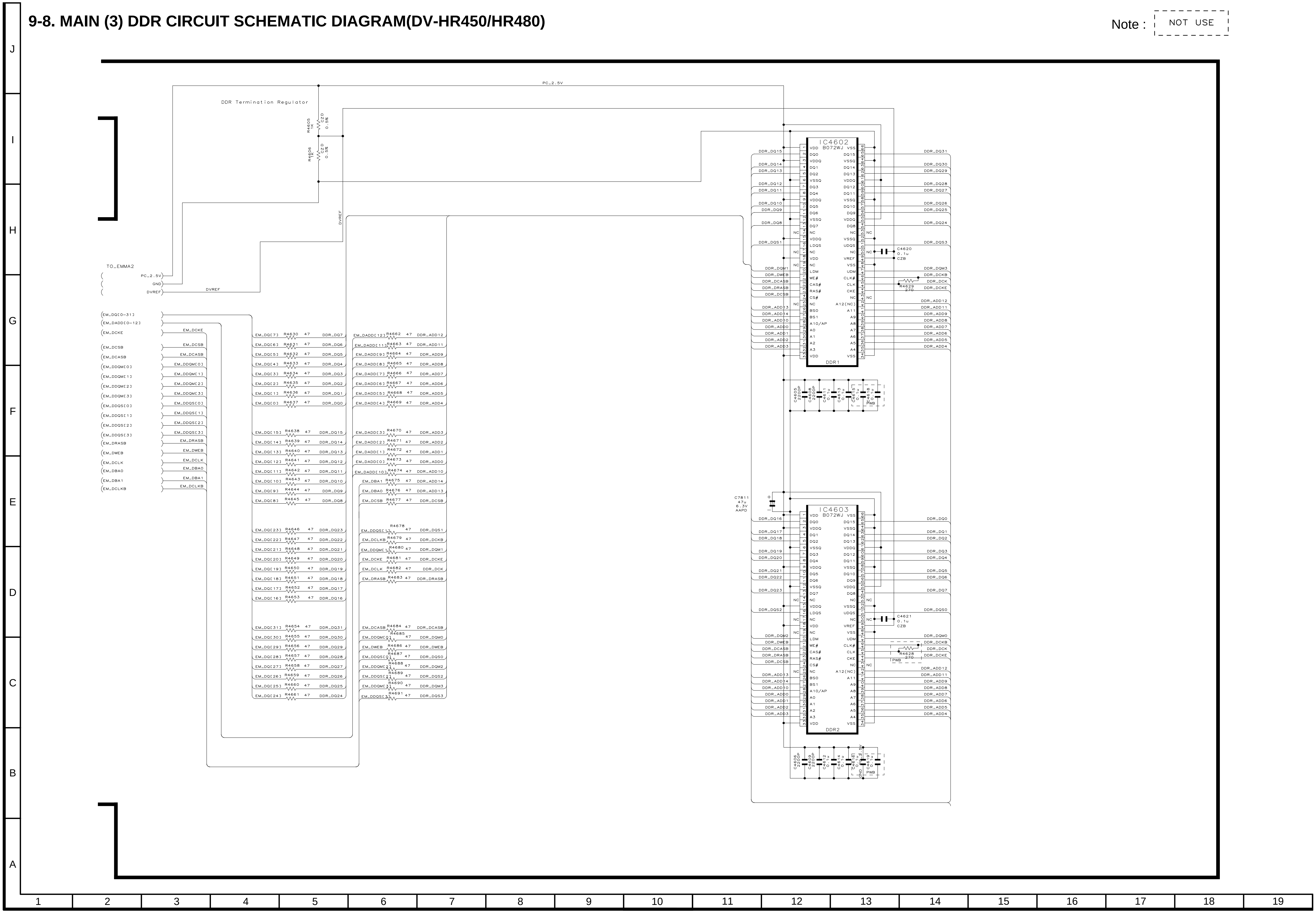
14
15
16
17
18
19
DDR Termination Regulator
R4605
R4606
TO_EMMA2
PC_2.5V
GND
DVREF
EM_DQ[0-31]
EM_DADD[0-12]
EM_DCKE
EM_DCSB
EM_DCASB
EM_DDQM[0]
EM_DDQM[1]
EM_DDQM[2]
EM_DDQM[3]
EM_DDQS[0]
EM_DDQS[1]
EM_DDQS[2]
EM_DDQS[3]
EM_DRASB
EM_DWEB
EM_DCLK
EM_DBA0
EM_DBA1
EM_DCLKB
IC4602
B072WJ
DDR1
IC4603
B072WJ
DDR2
C4620
0.1u
C4621
0.1u
R4629
270
R4628
270
C7811
47u
6.3V
PWB

9-8. MAIN (3) DDR CIRCUIT SCHEMATIC DIAGRAM(DV-HR450/HR480)

Note : NOT USE


J
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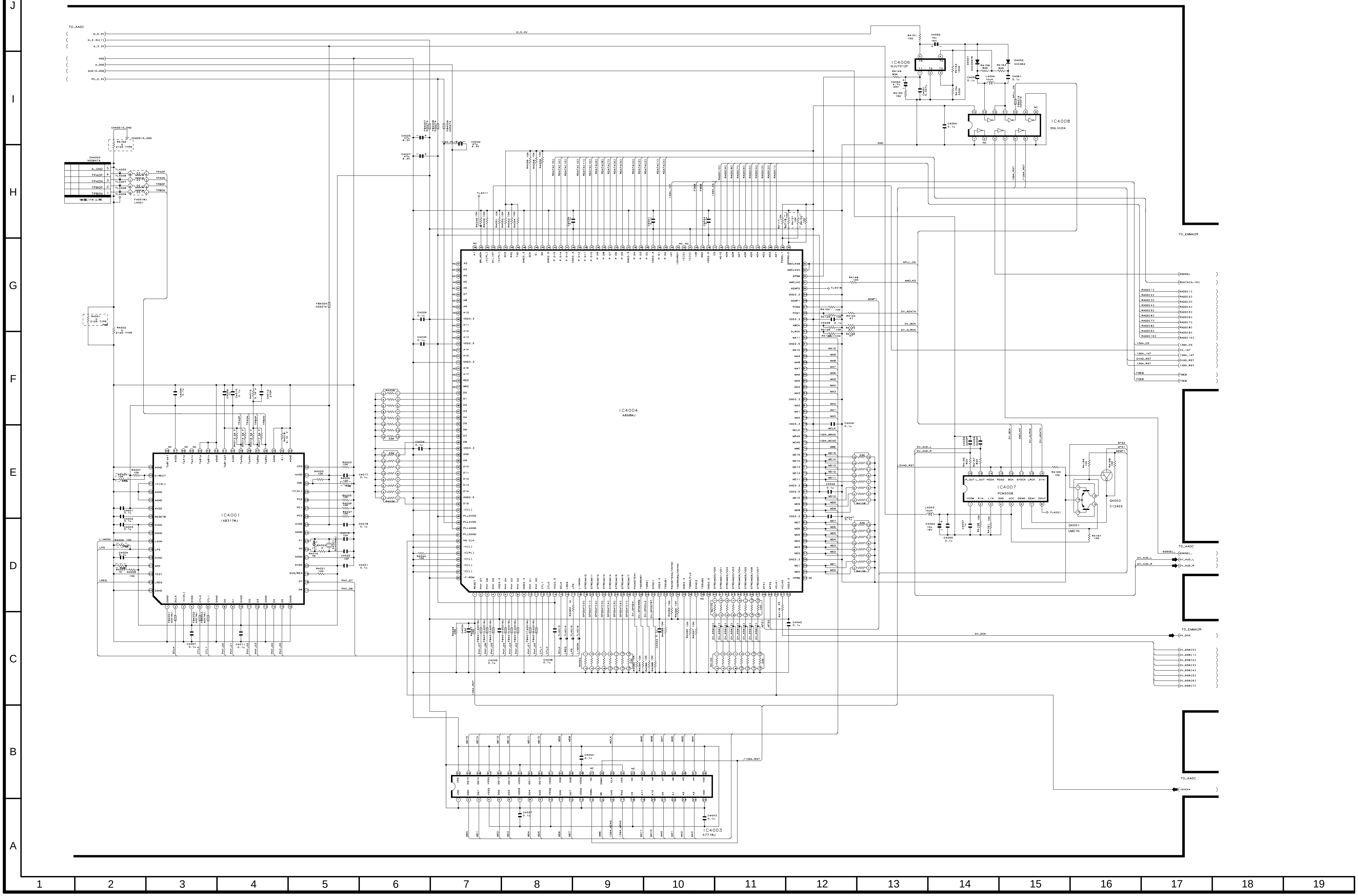
12
13
14
15
16
17
18
19
PC_2.5V
DDR Termination Regulator
R4605 1K
R4606 1K
CZD 0.5%
DVREF
TO_EMMA2
PC_2.5V
GND
DVREF
EM_DQ[0-31]
EM_DADD[0-12]
EM_DCKE
EM_DCSB
EM_DCASB
EM_DDQM[0]
EM_DDQM[1]
EM_DDQM[2]
EM_DDQM[3]
EM_DDQS[0]
EM_DDQS[1]
EM_DDQS[2]
EM_DDQS[3]
EM_DRASB
EM_DWEB
EM_DCLK
EM_DBA0
EM_DBA1
EM_DCLKB
R4630 47 DDR_DQ7
R4631 47 DDR_DQ6
R4632 47 DDR_DQ5
R4633 47 DDR_DQ4
R4634 47 DDR_DQ3
R4635 47 DDR_DQ2
R4636 47 DDR_DQ1
R4637 47 DDR_DQ0
R4638 47 DDR_DQ15
R4639 47 DDR_DQ14
R4640 47 DDR_DQ13
R4641 47 DDR_DQ12
R4642 47 DDR_DQ11
R4643 47 DDR_DQ10
R4644 47 DDR_DQ9
R4645 47 DDR_DQ8
R4646 47 DDR_DQ23
R4647 47 DDR_DQ22
R4648 47 DDR_DQ21
R4649 47 DDR_DQ20
R4650 47 DDR_DQ19
R4651 47 DDR_DQ18
R4652 47 DDR_DQ17
R4653 47 DDR_DQ16
R4654 47 DDR_DQ31
R4655 47 DDR_DQ30
R4656 47 DDR_DQ29
R4657 47 DDR_DQ28
R4658 47 DDR_DQ27
R4659 47 DDR_DQ26
R4660 47 DDR_DQ25
R4661 47 DDR_DQ24
R4662 47 DDR_ADD12
R4663 47 DDR_ADD11
R4664 47 DDR_ADD9
R4665 47 DDR_ADD8
R4666 47 DDR_ADD7
R4667 47 DDR_ADD6
R4668 47 DDR_ADD5
R4669 47 DDR_ADD4
R4670 47 DDR_ADD3
R4671 47 DDR_ADD2
R4672 47 DDR_ADD1
R4673 47 DDR_ADD0
R4674 47 DDR_ADD10
R4675 47 DDR_ADD14
R4676 47 DDR_ADD13
R4677 47 DDR_DCSB
R4678 47 DDR_DQS1
R4679 47 DDR_DCKB
R4680 47 DDR_DQM1
R4681 47 DDR_DCKE
R4682 47 DDR_DCK
R4683 47 DDR_DRASB
R4684 47 DDR_DCASB
R4685 47 DDR_DQM0
R4686 47 DDR_DWEB
R4687 47 DDR_DQS0
R4688 47 DDR_DQM2
R4689 47 DDR_DQS2
R4690 47 DDR_DQM3
R4691 47 DDR_DQS3
IC4602
B072WJ
DDR1
IC4603
B072WJ
DDR2
C4620 0.1u CZB
C4621 0.1u CZB
R4629 270
R4628 270
PWB
C7811 47u 6.3V AAPD
C4605 2200P
C4608 2200P
C4609 2200P
C4606 2200P
C4611 0.1u
C4612 0.1u
C4613 0.1u
C4614 0.1u
C4615 0.1u
C4616 0.1u
C4618 0.1u
C4619 0.1u
NC

Note : NOT USE

9-9. MAIN (4) IEEE1394 CIRCUIT SCHEMATIC DIAGRAM(DV-HR450/HR480 only)


J
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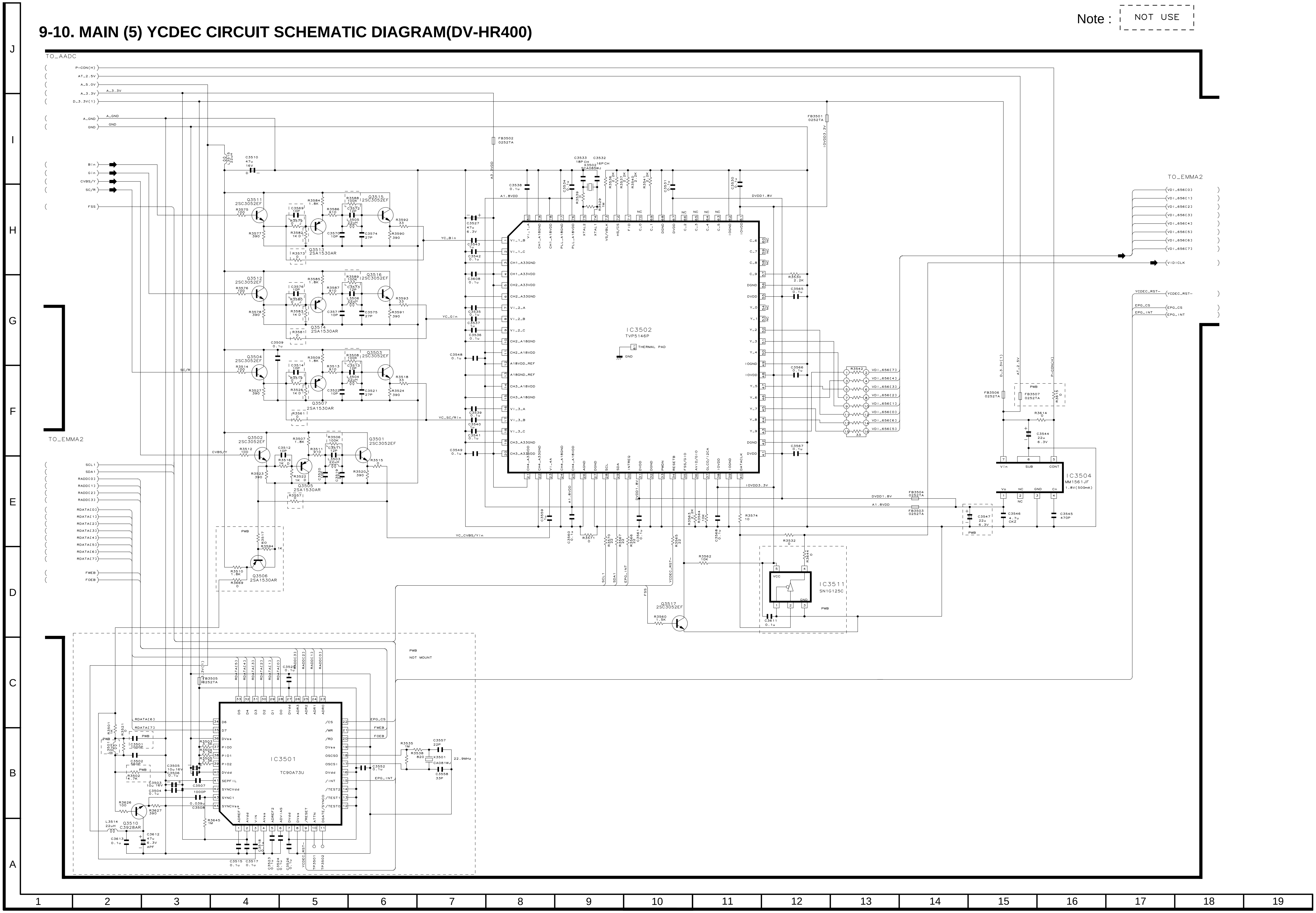
15
16
17
18
19
TO_AADC
D_5.0V
D_3.3V(1)
A_3.3V
GND
A_GND
AUDIO_GND
PC_2.5V
CN4002
IC4001
IXB317WJ
IC4004
A808WJ
IC4003
A771WJ
IC4006
NJU7012F
IC4008
SNLVU04
IC4007
PCM3008
Q4003
C124EE
Q4001
UMG1N
TO_EMMA2R
TO_AADC
TO_EMMA2R
TO_AADC

Note : NOT USE

9-10. MAIN (5) YCDEC CIRCUIT SCHEMATIC DIAGRAM(DV-HR400)


TO_AADC
P-CON(H)
AT_2.5V
A_5.0V
A_3.3V
D_3.3V(1)
A_GND
GND
Bin
Gin
CVBS/Y
SC/R
FSS
TO_EMMA2
SCL1
SDA1
RADD[0]
RADD[1]
RADD[2]
RADD[3]
RDATA[0]
RDATA[1]
RDATA[2]
RDATA[3]
RDATA[4]
RDATA[5]
RDATA[6]
RDATA[7]
FWEB
FOEB
IC3502
TVP5146P
THERMAL PAD
IC3501
TC90A73U
IC3504
MM1561JF
1.8V(500mA)
IC3511
SN1G125C
Q3511 2SC3052EF
Q3515 2SC3052EF
Q3513 2SA1530AR
Q3512 2SC3052EF
Q3516 2SC3052EF
Q3514 2SA1530AR
Q3504 2SC3052EF
Q3503 2SC3052EF
Q3507 2SA1530AR
Q3502 2SC3052EF
Q3501 2SC3052EF
Q3505 2SA1530AR
Q3506 2SA1530AR
Q3517 2SC3052EF
Q3510 C3928AR
X3501 CA081WJ
22.9MHz
YC_Bin
YC_Gin
YC_SC/Rin
YC_CVBS/Yin
TO_EMMA2
VDI_656[0]
VDI_656[1]
VDI_656[2]
VDI_656[3]
VDI_656[4]
VDI_656[5]
VDI_656[6]
VDI_656[7]
VDICLK
YCDEC_RST-
EPG_CS
EPG_INT
PWB
PWB NOT MOUNT
FB3501 0252TA
FB3502 0252TA
FB3503 0252TA
FB3504 0252TA
FB3505 0252TA
FB3506 0252TA
FB3507 0252TA
DVDD1.8V
IOVDD3.3V
A1.8VDD
A3.3VDD
J
I
H
G
F
E
D
C
B
A
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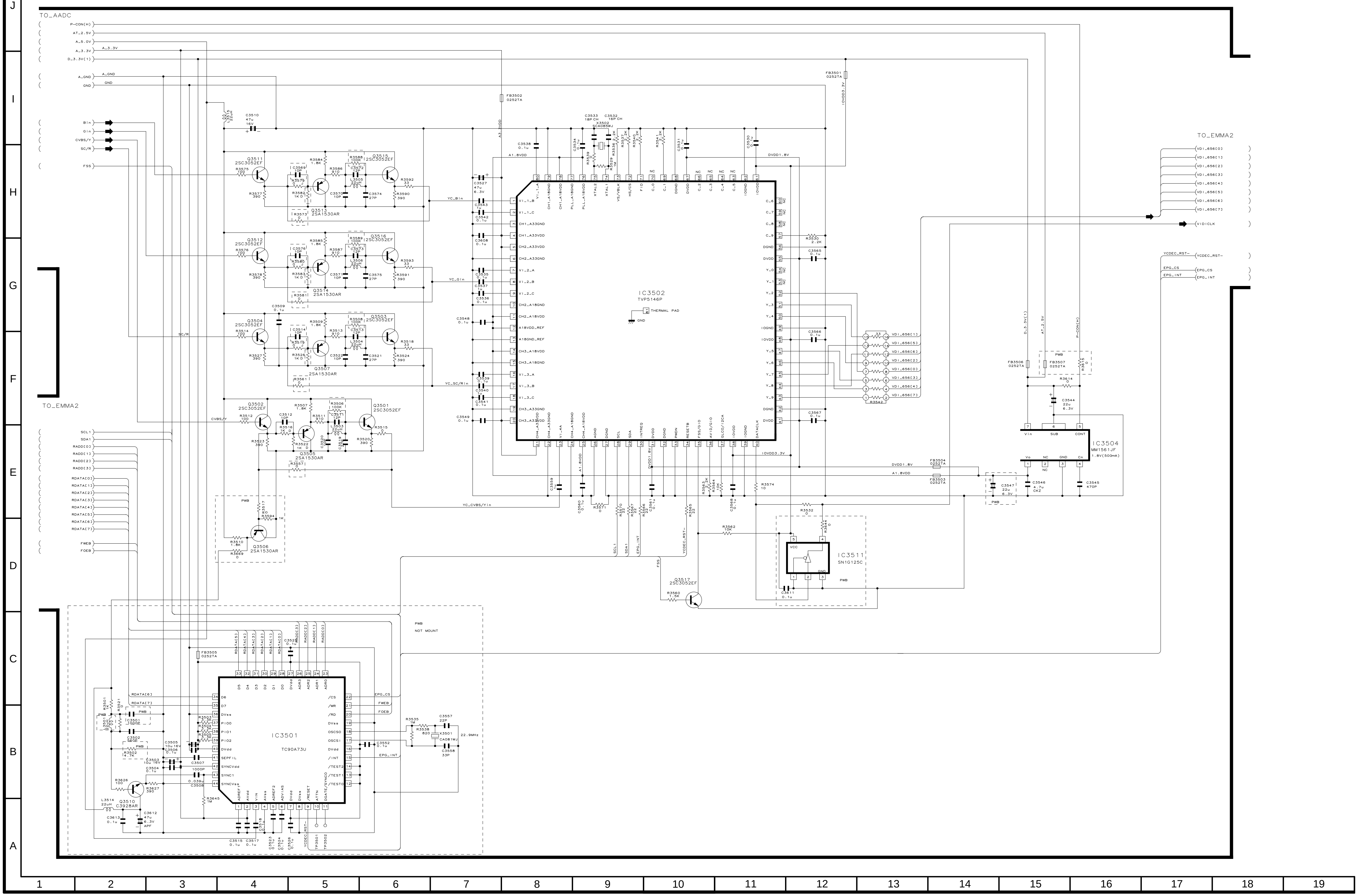
9-11. MAIN (5) YCDEC CIRCUIT SCHEMATIC DIAGRAM(DV-HR450/HR480)

Note : NOT USE


J
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H
G
F
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D
C
B
A
1
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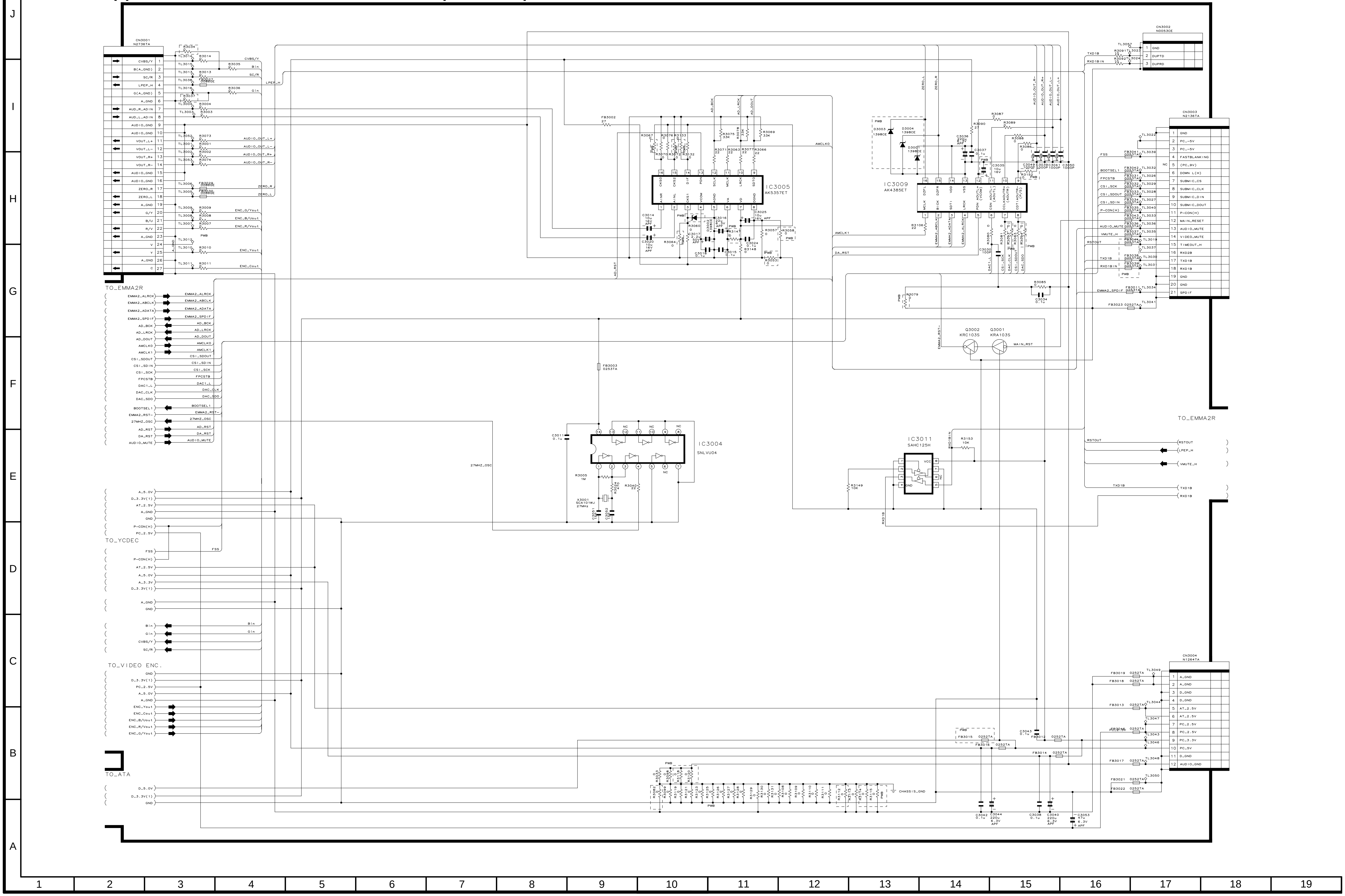
10
11
12
13
14
15
16
17
18
19
TO_AADC
P-CON(H)
AT_2.5V
A_5.0V
A_3.3V
D_3.3V(1)
A_GND
GND
Bin
Gin
CVBS/Y
SC/R
FSS
TO_EMMA2
SCL1
SDA1
RADD[0]
RADD[1]
RADD[2]
RADD[3]
RDATA[0]
RDATA[1]
RDATA[2]
RDATA[3]
RDATA[4]
RDATA[5]
RDATA[6]
RDATA[7]
FWEB
FOEB
IC3502
TVP5146P
THERMAL PAD
IC3501
TC90A73U
IC3504
MM1561JF
1.8V(500mA)
IC3511
SN1G125C
TO_EMMA2
VDI_656[0]
VDI_656[1]
VDI_656[2]
VDI_656[3]
VDI_656[4]
VDI_656[5]
VDI_656[6]
VDI_656[7]
VIDICLK
YCDEC_RST-
EPG_CS
EPG_INT
YC_Bin
YC_Gin
YC_SC/Rin
YC_CVBS/Yin
A1.8VDD
DVDD1.8V
IOVDD3.3V
FB3501 0252TA
FB3502 0252TA
FB3505 0252TA
FB3506 0252TA
FB3507 0252TA
X3502 SCA085WJ
X3501 CA081WJ
22.9MHz
Q3501 2SC3052EF
Q3502 2SC3052EF
Q3503 2SC3052EF
Q3504 2SC3052EF
Q3505 2SA1530AR
Q3506 2SA1530AR
Q3507 2SA1530AR
Q3511 2SC3052EF
Q3512 2SC3052EF
Q3513 2SA1530AR
Q3514 2SA1530AR
Q3515 2SC3052EF
Q3516 2SC3052EF
Q3517 2SC3052EF
Q3510 C3928AR
PWB
PWB NOT MOUNT

Note : NOT USE

9-12. MAIN (6) AADC CIRCUIT SCHEMATIC DIAGRAM (DV-HR400)


J
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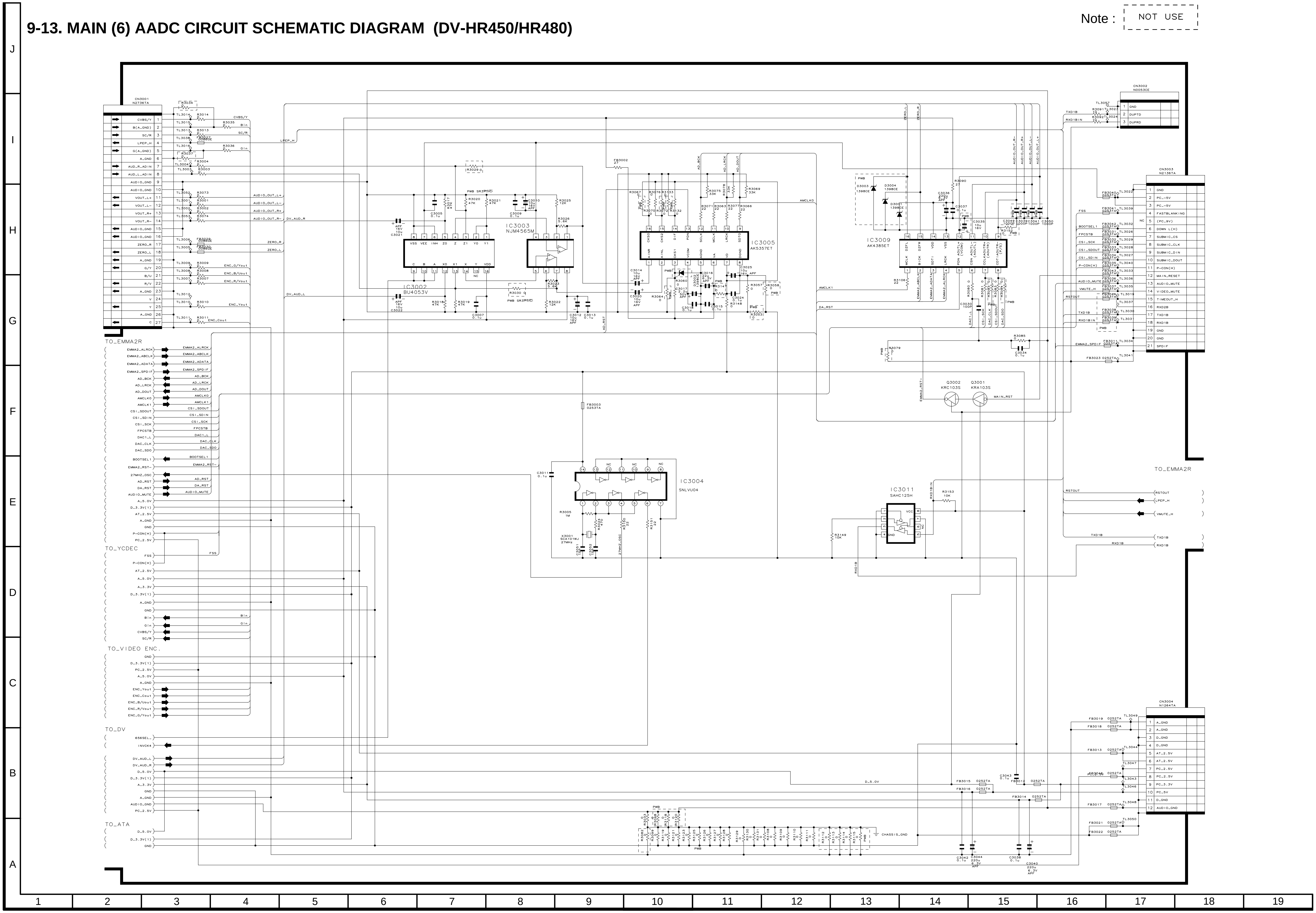
18
19
CN3001 N2736TA
CVBS/Y 1
B(A_GND) 2
SC/R 3
LPEP_H 4
G(A_GND) 5
A_GND 6
AUD_R_ADIN 7
AUD_L_ADIN 8
AUDIO_GND 9
AUDIO_GND 10
VOUT_L+ 11
VOUT_L- 12
VOUT_R+ 13
VOUT_R- 14
AUDIO_GND 15
AUDIO_GND 16
ZERO_R 17
ZERO_L 18
A_GND 19
G/Y 20
B/U 21
R/V 22
A_GND 23
V 24
Y 25
A_GND 26
C 27
TO_EMMA2R
EMMA2_ALRCK
EMMA2_ABCLK
EMMA2_ADATA
EMMA2_SPDIF
AD_BCK
AD_LRCK
AD_DOUT
AMCLK0
AMCLK1
CSI_SDOUT
CSI_SDIN
CSI_SCK
FPCSTB
DAC1_L
DAC_CLK
DAC_SDO
BOOTSEL1
EMMA2_RST-
27MHZ_OSC
AD_RST
DA_RST
AUDIO_MUTE
TO_YCDEC
TO_VIDEO ENC.
TO_ATA
IC3005
AK5357ET
IC3009
AK4385ET
IC3004
SNLVU04
IC3011
SAHC125H
Q3002
KRC103S
Q3001
KRA103S
X3001
27MHz
CN3002 N0053CE
1 GND
2 DUPTD
3 DUPRD
CN3003 N2136TA
1 GND
2 PC_-5V
3 PC_-5V
4 FASTBLANKING
5 (PC_9V)
6 DOWN_L(H)
7 SUBMIC_CS
8 SUBMIC_CLK
9 SUBMIC_DIN
10 SUBMIC_DOUT
11 P-CON(H)
12 MAIN_RESET
13 AUDIO_MUTE
14 VIDEO_MUTE
15 TIMEOUT_H
16 RXD2B
17 TXD1B
18 RXD1B
19 GND
20 GND
21 SPDIF
TO_EMMA2R
RSTOUT
LPEP_H
VMUTE_H
TXD1B
RXD1B
CN3004 N1264TA
1 A_GND
2 A_GND
3 D_GND
4 D_GND
5 AT_2.5V
6 AT_2.5V
7 PC_2.5V
8 PC_2.5V
9 PC_3.3V
10 PC_5V
11 D_GND
12 AUDIO_GND
CHASSIS_GND
MAIN_RST
AMCLK0
AMCLK1
DA_RST
AD_RST
27MHZ_OSC

9-13. MAIN (6) AADC CIRCUIT SCHEMATIC DIAGRAM (DV-HR450/HR480)

Note : NOT USE


J
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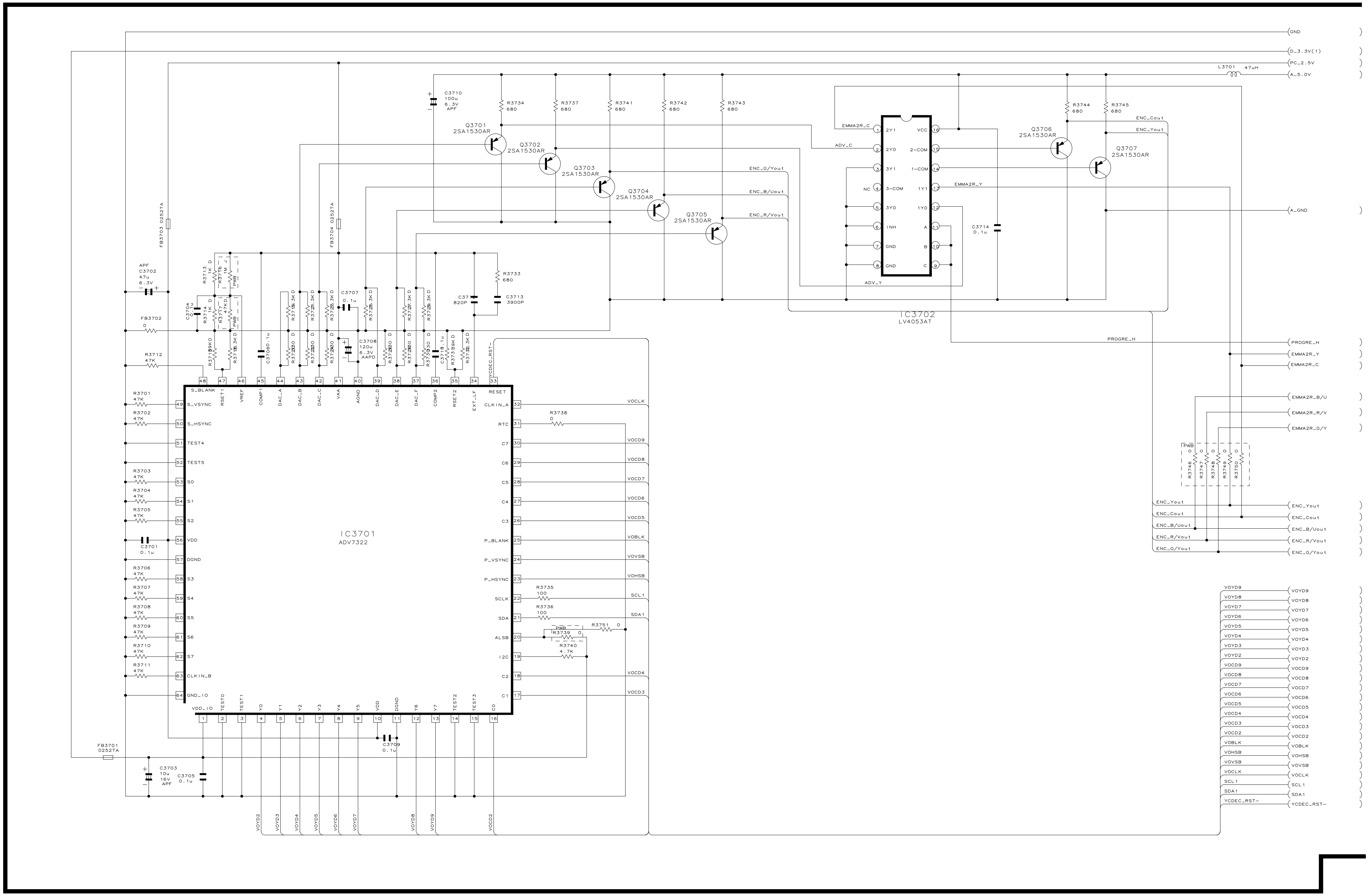
CN3001
N2736TA
IC3002
BU4053V
IC3003
NJM4565M
IC3005
AK5357ET
IC3009
AK4385ET
IC3004
SNLVU04
IC3011
SAHC125H
Q3002
KRC103S
Q3001
KRA103S
X3001
SCA101MJ
27MHz
CN3002
N0053CE
CN3003
N2136TA
CN3004
N1264TA
TO_EMMA2R
TO_YCDEC
TO_VIDEO ENC.
TO_DV
TO_ATA
MAIN_RST
CHASSIS_GND

9-14. MAIN (7) VIDEO ENCODER CIRCUIT SCHEMATIC DIAGRAM

Note : NOT USE


GND
D_3.3V(1)
PC_2.5V
A_5.0V
L3701 47uH
A_GND
C3710 100u 6.3V APF
R3734 680
R3737 680
R3741 680
R3742 680
R3743 680
Q3701 2SA1530AR
Q3702 2SA1530AR
Q3703 2SA1530AR
Q3704 2SA1530AR
Q3705 2SA1530AR
ENC_G/Yout
ENC_B/Uout
ENC_R/Vout
FB3703 0252TA
FB3704 0252TA
APF C3702 47u 6.3V
FB3702 0
R3712 47K
R3713 1K D
R3714 1K D
R3716 1M J
R3717 47KD
PWB
C3704 0.1u
C3707 0.1u
C3708 120u 6.3V AAPD
C3706 0.1u
C3711 820P
C3713 3900P
R3733 680
C3719 0.1u
YCDEC_RST-
48 S_BLANK
47 RSET1
46 VREF
45 COMP1
44 DAC_A
43 DAC_B
42 DAC_C
41 VAA
40 AGND
39 DAC_D
38 DAC_E
37 DAC_F
36 COMP2
35 RSET2
34 EXT_LF
33 RESET
R3701 47K
R3702 47K
R3703 47K
R3704 47K
R3705 47K
R3706 47K
R3707 47K
R3708 47K
R3709 47K
R3710 47K
R3711 47K
C3701 0.1u
49 S_VSYNC
50 S_HSYNC
51 TEST4
52 TEST5
53 S0
54 S1
55 S2
56 VDD
57 DGND
58 S3
59 S4
60 S5
61 S6
62 S7
63 CLKIN_B
64 GND_IO
IC3701
ADV7322
32 CLKIN_A
31 RTC
30 C7
29 C6
28 C5
27 C4
26 C3
25 P_BLANK
24 P_VSYNC
23 P_HSYNC
22 SCLK
21 SDA
20 ALSB
19 I2C
18 C2
17 C1
VOCLK
R3738 0
VOCD9
VOCD8
VOCD7
VOCD6
VOCD5
VOBLK
VOVSB
VOHSB
R3735 100
SCL1
R3736 100
SDA1
R3751 0
R3739 0
R3740 4.7K
VOCD4
VOCD3
1 VDD_IO
2 TEST0
3 TEST1
4 Y0
5 Y1
6 Y2
7 Y3
8 Y4
9 Y5
10 VDD
11 DGND
12 Y6
13 Y7
14 TEST2
15 TEST3
16 C0
C3709 0.1u
FB3701 0252TA
C3703 10u 16V APF
C3705 0.1u
VOYD2
VOYD3
VOYD4
VOYD5
VOYD6
VOYD7
VOYD8
VOYD9
VOCD2
EMMA2R_C
ADV_C
ADV_Y
1 2Y1
2 2Y0
3 3Y1
NC 4 3-COM
5 3Y0
6 INH
7 GND
8 GND
16 VCC
15 2-COM
14 1-COM
13 1Y1
12 1Y0
11 A
10 B
9 C
EMMA2R_Y
C3714 0.1u
IC3702
LV4053AT
R3744 680
R3745 680
Q3706 2SA1530AR
Q3707 2SA1530AR
ENC_Cout
ENC_Yout
PROGRE_H
EMMA2R_Y
EMMA2R_C
EMMA2R_B/U
EMMA2R_R/V
EMMA2R_G/Y
R3746 0
R3747 0
R3748 0
R3749 0
R3750 0
ENC_Yout
ENC_Cout
ENC_B/Uout
ENC_R/Vout
ENC_G/Yout
VOYD9
VOYD8
VOYD7
VOYD6
VOYD5
VOYD4
VOYD3
VOYD2
VOCD9
VOCD8
VOCD7
VOCD6
VOCD5
VOCD4
VOCD3
VOCD2
VOBLK
VOHSB
VOVSB
VOCLK
SCL1
SDA1
YCDEC_RST-
J
I
H
G
F
E
D
C
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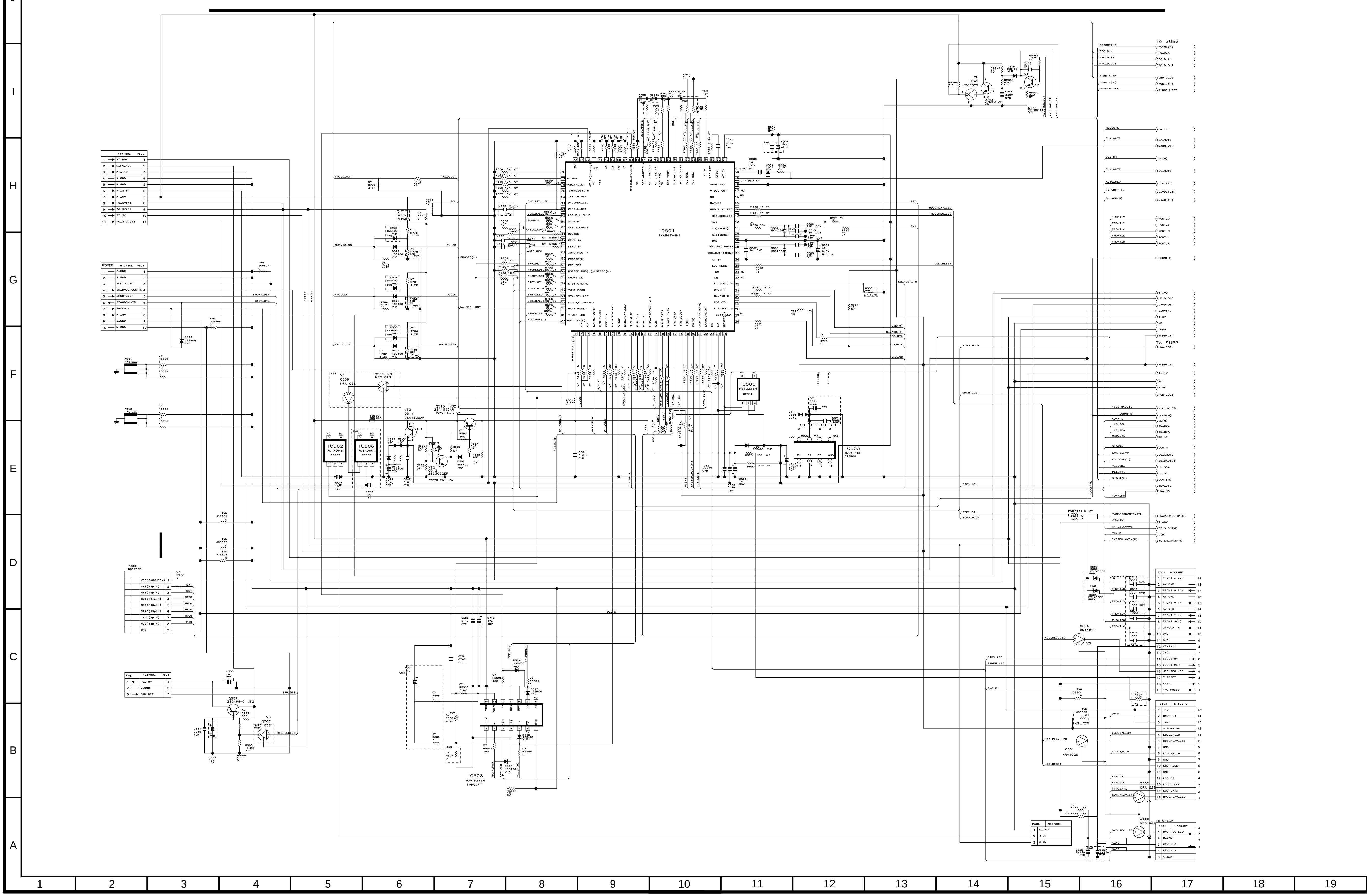
9-15. SUB CIRCUIT (1) SCHEMATIC DIAGRAM

Note : NOT USE


J
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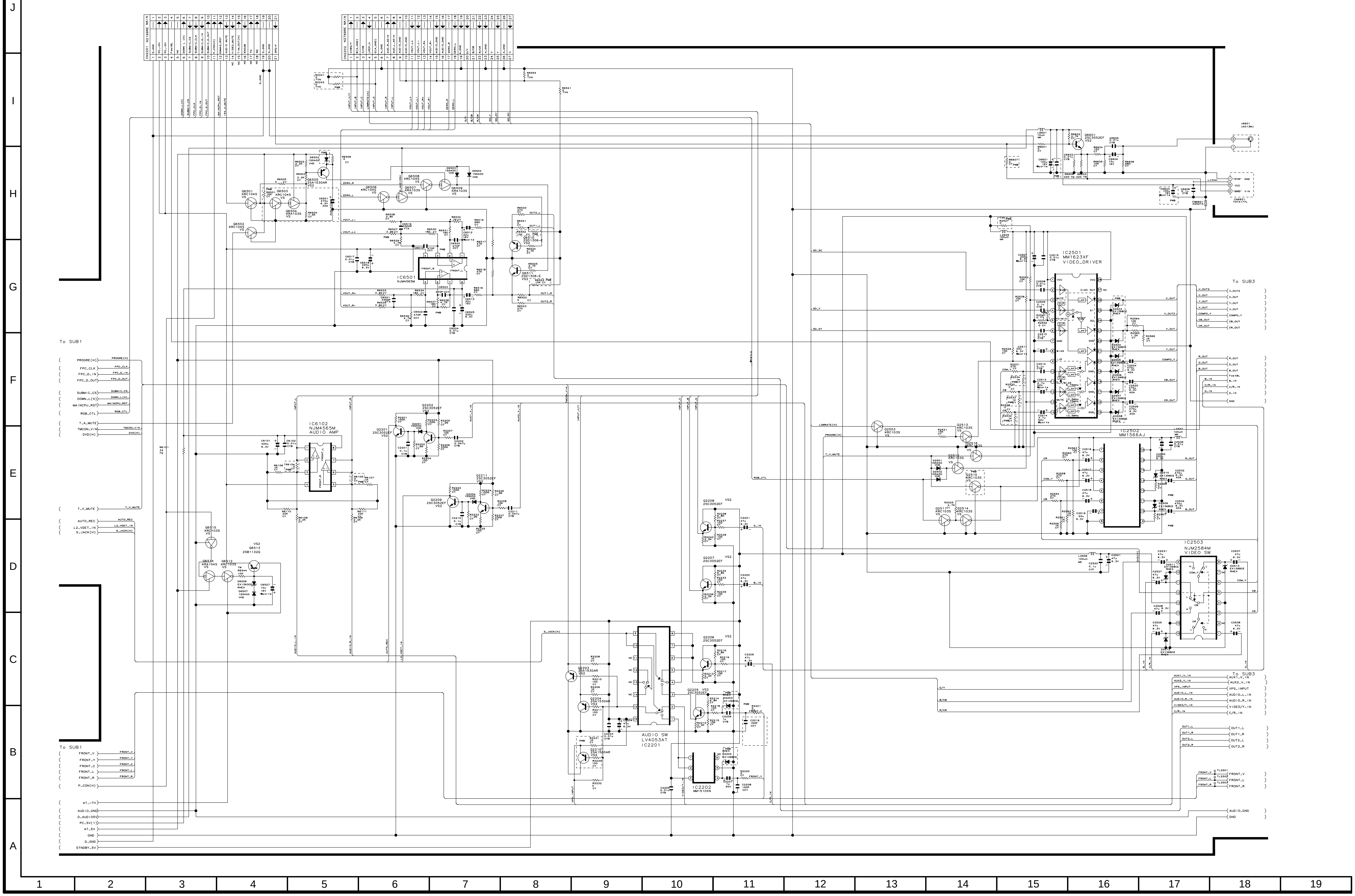
19
IC501
IXA841WJN1
IC502
PST3224N
RESET
IC506
PST3229N
RESET
IC505
PST3225N
RESET
IC503
BR24L16F
E2PROM
IC508
POW BUFFER
TVHC74T
P502
P501
P506
P503
P505
S502
S503
S551
FAN
Q559
KRA103S
Q558
KRC104S
Q511
2SA1530AR
Q513
2SA1530AR
POWER FAIL SW
Q512
2SC3052EF
Q557
2SD468-C
Q767
Q742
KRC102S
Q564
KRA102S
Q501
KRA102S
Q502
Q563
To SUB2
To SUB3
To OPE_R

9-16. SUB CIRCUIT (2) SCHEMATIC DIAGRAM

Note : NOT USE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15
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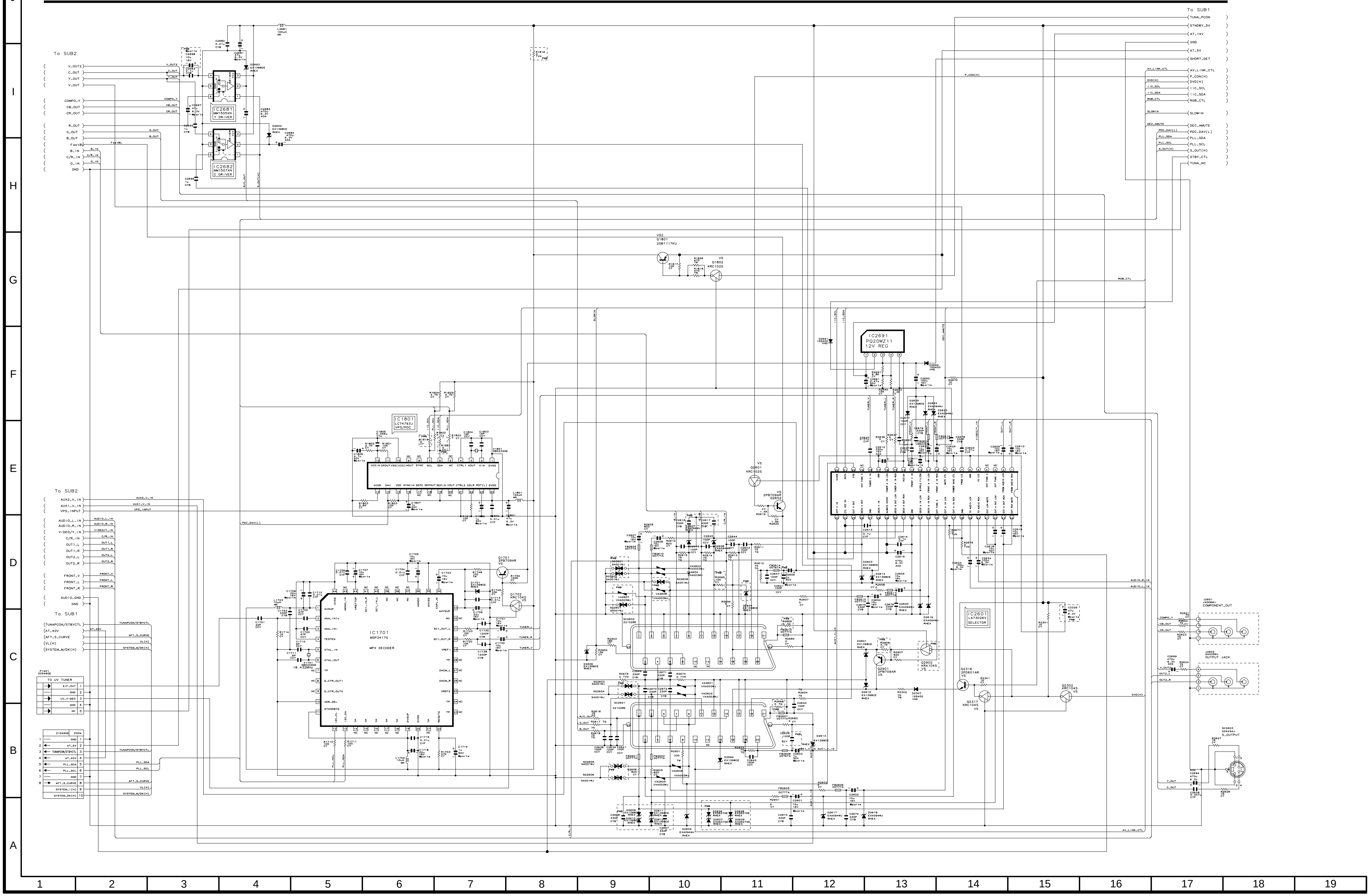
19
CN2201
CN2202
IC6102
NJM4565M
AUDIO AMP
IC6501
NJM4565M
IC2501
MM1623XF
VIDEO DRIVER
IC2502
MM1566AJ
IC2503
NJM2584M
VIDEO SW
AUDIO SW
LV4053AT
IC2201
IC2202
MM1510XN
J6601
CN6601
To SUB1
PROGRE(H)
FPC_CLK
FPC_D_IN
FPC_D_OUT
SUBMIC_CS
DOWN_L(H)
MAINCPU_RST
RGB_CTL
T_A_MUTE
TMCON_V.IN
DVD(H)
T_V_MUTE
AUTO_REC
L2_VDET_IN
S_JACK(H)
To SUB1
FRONT_V
FRONT_Y
FRONT_C
FRONT_L
FRONT_R
P_CON(H)
AT_-7V
AUDIO_GND
D_AUDIO(5V)
PC_5V(1)
AT_5V
GND
D_GND
STNDBY_5V
To SUB3
V_OUT2
C_OUT
Y_OUT
V_OUT
COMPO_Y
CB_OUT
CR_OUT
R_OUT
G_OUT
B_OUT
Fast BL
C/R_IN
G_IN
GND
To SUB3
AUX1_V_IN
AUX2_V_IN
VPS_INPUT
AUDIO_L_IN
AUDIO_R_IN
VIDEO/Y_IN
C/R_IN
OUT1_L
OUT1_R
OUT2_L
OUT2_R
FRONT_V
FRONT_L
FRONT_R
AUDIO_GND
GND

9-17. SUB CIRCUIT (3) SCHEMATIC DIAGRAM

Note : NOT USE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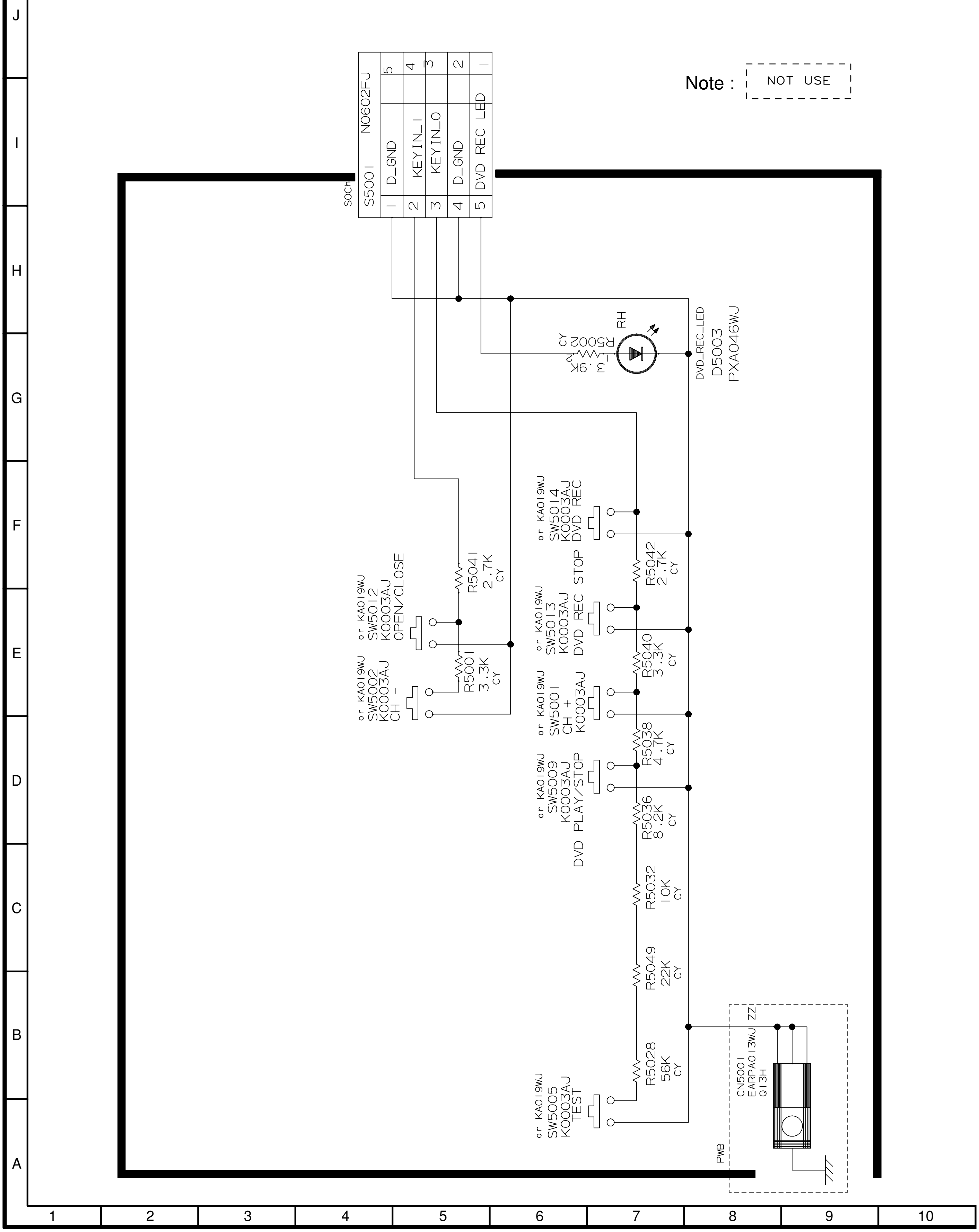
14
15
16
17
18
19
To SUB2
V_OUT2
C_OUT
Y_OUT
V_OUT
COMPO_Y
CB_OUT
CR_OUT
R_OUT
G_OUT
B_OUT
Fs/BL
B_IN
C/R_IN
G_IN
GND
IC2681
MM1505XN
Y DRIVER
IC2682
MM1507XN
C DRIVER
To SUB1
TUNA_PCON
STNDBY_5V
AT_14V
GND
AT_5V
SHORT_DET
AV_LINK_CTL
P_CON(H)
DVD(H)
I2C_SCL
I2C_SDA
RGB_CTL
SLOWIN
DEC_AMUTE
PDC_DAV(L)
PLL_SDA
PLL_SCL
S_OUT(H)
STBY_CTL
TUNA_NC
Q1801
2SB1117KU
Q1802
KRC102S
IC2691
PQ20WZ11
12V REG
IC1801
LC74793J
VPS/PDC
To SUB2
AUX2_V_IN
AUX1_V_IN
VPS_INPUT
AUDIO_L_IN
AUDIO_R_IN
VIDEO/Y_IN
C/R_IN
OUT1_L
OUT1_R
OUT2_L
OUT2_R
FRONT_V
FRONT_L
FRONT_R
AUDIO_GND
GND
To SUB1
TUNAPCON/STBYCTL
AT_40V
AFT_S_CURVE
VL(H)
SYSTEM_M/DK(H)
IC1701
MSP3417G
MPX DECODER
Q1701
2PB709AR
Q1702
KRC104S
Q2601
KRC102S
Q2602
2PB709AR
IC2601
LA73026V
SELECTOR
Q2901
2PB709AR
Q2902
KRA104S
Q2316
2PD601AR
Q2317
KRC104S
Q2302
KRC104S
J2601
COMPONENT_OUT
J2602
OUTPUT JACK
SC2603
S_OUTPUT
TO UV TUNER

9-18. OPERATION (R) CIRCUIT SCHEMATIC DIAGRAM

Note : NOT USE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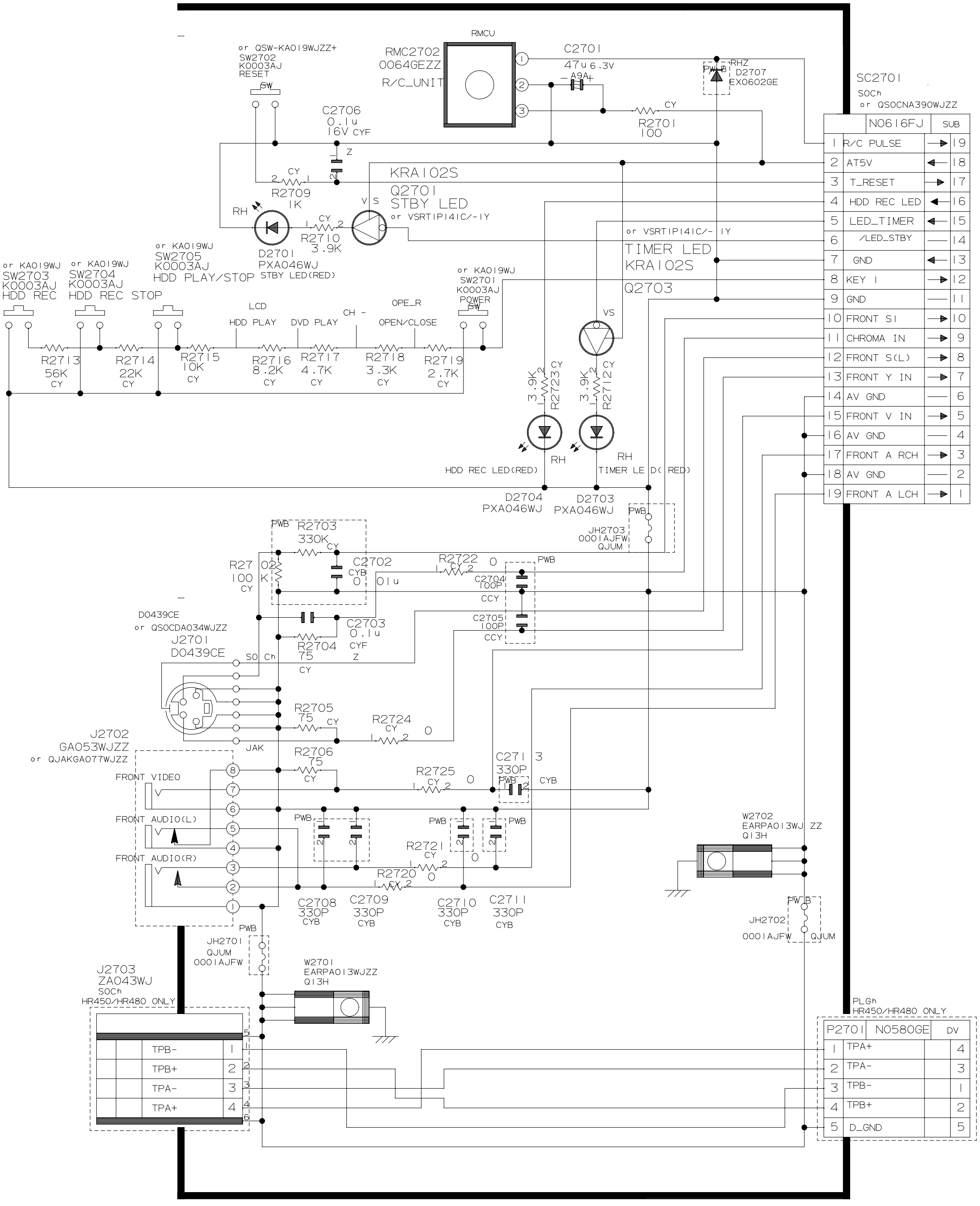
SOCh
S5001 N0602FJ
1 D_GND 5
2 KEYIN_1 4
3 KEYIN_0 3
4 D_GND 2
5 DVD REC LED 1
RH
R5002 3.9K CY
DVD_REC_LED
D5003
PXA046WJ
or KA019WJ
SW5014
K0003AJ
DVD REC
R5042 2.7K CY
or KA019WJ
SW5013
K0003AJ
DVD REC STOP
R5040 3.3K CY
or KA019WJ
SW5001
CH +
K0003AJ
R5038 4.7K CY
or KA019WJ
SW5009
K0003AJ
DVD PLAY/STOP
R5036 8.2K CY
R5032 10K CY
R5049 22K CY
R5028 56K CY
or KA019WJ
SW5005
K0003AJ
TEST
or KA019WJ
SW5012
K0003AJ
OPEN/CLOSE
R5041 2.7K CY
or KA019WJ
SW5002
K0003AJ
CH -
R5001 3.3K CY
CN5001
EARPA013WJ ZZ
Q13H
PWB

9-19. OPERATION (L) CIRCUIT SCHEMATIC DIAGRAM

Note : NOT USE


RMCU
RMC2702
0064GEZZ
R/C_UNIT
C2701
47u 6.3V
A9A
R2701
100
CY
D2707
EX0602GE
RHZ
PWB
or QSW-KA019WJZZ+
SW2702
K0003AJ
RESET
SW
C2706
0.1u
16V CYF
Z
R2709
1K
CY
KRA102S
Q2701
STBY LED
or VSRTIP141C/-1Y
RH
D2701
PXA046WJ
STBY LED(RED)
R2710
3.9K
CY
or VSRTIP141C/-1Y
TIMER LED
KRA102S
Q2703
VS
or KA019WJ
SW2703
K0003AJ
HDD REC
or KA019WJ
SW2704
K0003AJ
HDD REC STOP
or KA019WJ
SW2705
K0003AJ
HDD PLAY/STOP
LCD
HDD PLAY
DVD PLAY
CH -
OPE_R
OPEN/CLOSE
or KA019WJ
SW2701
K0003AJ
POWER
SW
R2713
56K
CY
R2714
22K
CY
R2715
10K
CY
R2716
8.2K
CY
R2717
4.7K
CY
R2718
3.3K
CY
R2719
2.7K
CY
3.9K
R2723 CY
3.9K
R2712 CY
HDD REC LED(RED)
TIMER LED(RED)
RH
D2704
PXA046WJ
D2703
PXA046WJ
SC2701
SOCh
or QSOCNA390WJZZ
N0616FJ
SUB
1 R/C PULSE 19
2 AT5V 18
3 T_RESET 17
4 HDD REC LED 16
5 LED_TIMER 15
6 /LED_STBY 14
7 GND 13
8 KEY 1 12
9 GND 11
10 FRONT S1 10
11 CHROMA IN 9
12 FRONT S(L) 8
13 FRONT Y IN 7
14 AV GND 6
15 FRONT V IN 5
16 AV GND 4
17 FRONT A RCH 3
18 AV GND 2
19 FRONT A LCH 1
JH2703
0001AJFW
QJUM
R2703
330K
CY
R2702
100K
CY
C2702
CYB
0.01u
R2722
CY
0
C2704
100P
CCY
C2705
100P
CCY
D0439CE
or QSOCDA034WJZZ
J2701
D0439CE
SO Ch
C2703
0.1u
CYF
Z
R2704
75
CY
R2705
75
CY
R2724
CY
0
J2702
GA053WJZZ
or QJAKGA077WJZZ
JAK
FRONT VIDEO
FRONT AUDIO(L)
FRONT AUDIO(R)
R2706
75
CY
R2725
CY
0
C2713
330P
CYB
R2721
CY
0
R2720
CY
0
C2708
330P
CYB
C2709
330P
CYB
C2710
330P
CYB
C2711
330P
CYB
W2702
EARPA013WJZZ
Q13H
JH2702
0001AJFW
QJUM
JH2701
QJUM
0001AJFW
W2701
EARPA013WJZZ
Q13H
J2703
ZA043WJ
SOCh
HR450/HR480 ONLY
TPB- 1
TPB+ 2
TPA- 3
TPA+ 4
PLGh
HR450/HR480 ONLY
P2701
N0580GE
DV
1 TPA+ 4
2 TPA- 3
3 TPB- 1
4 TPB+ 2
5 D_GND 5
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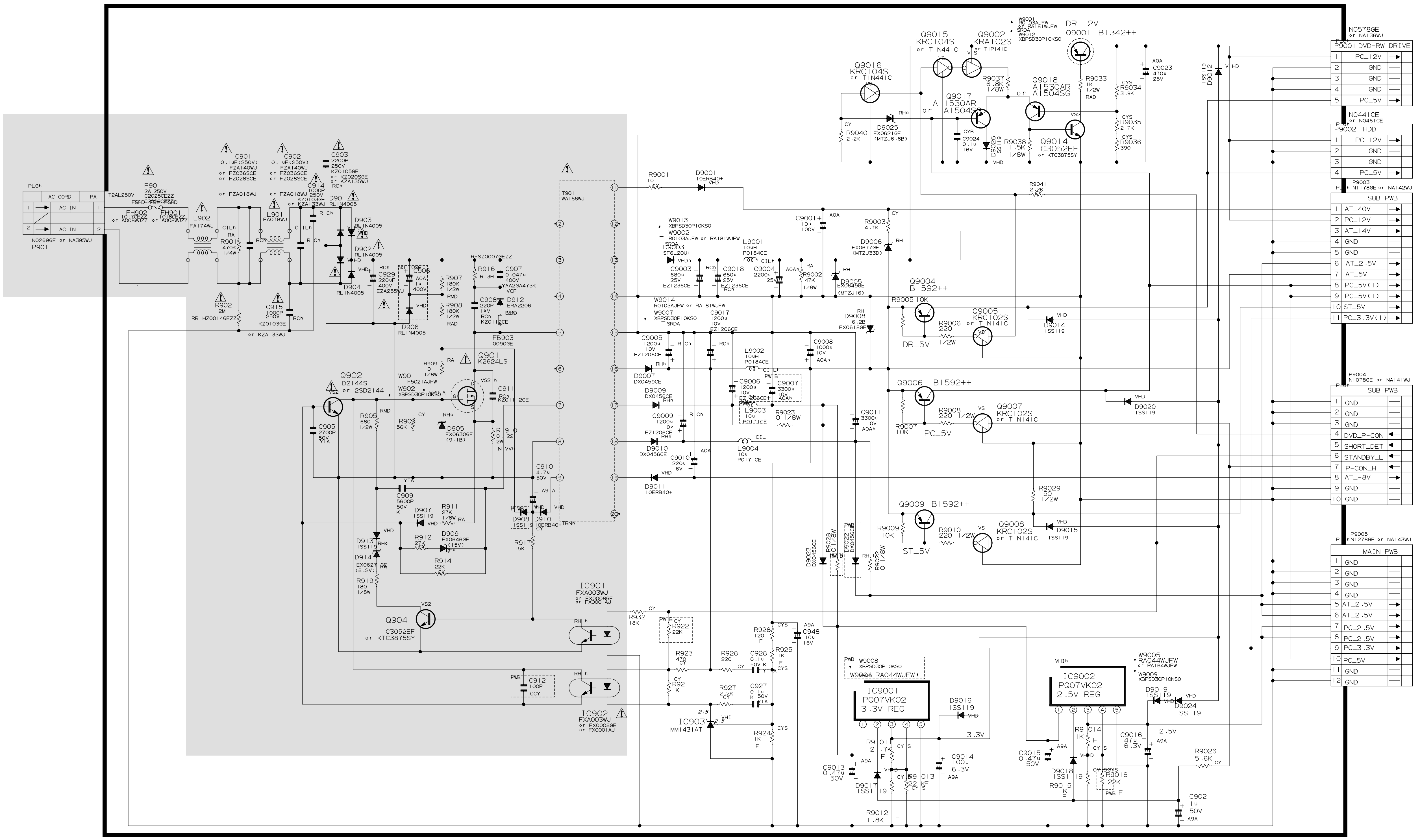
⚠ AND SHADED COMPONENTS=SAFETY RELATED PARTS

9-20. POWER CIRCUIT SCHEMATIC DIAGRAM

Note : NOT USE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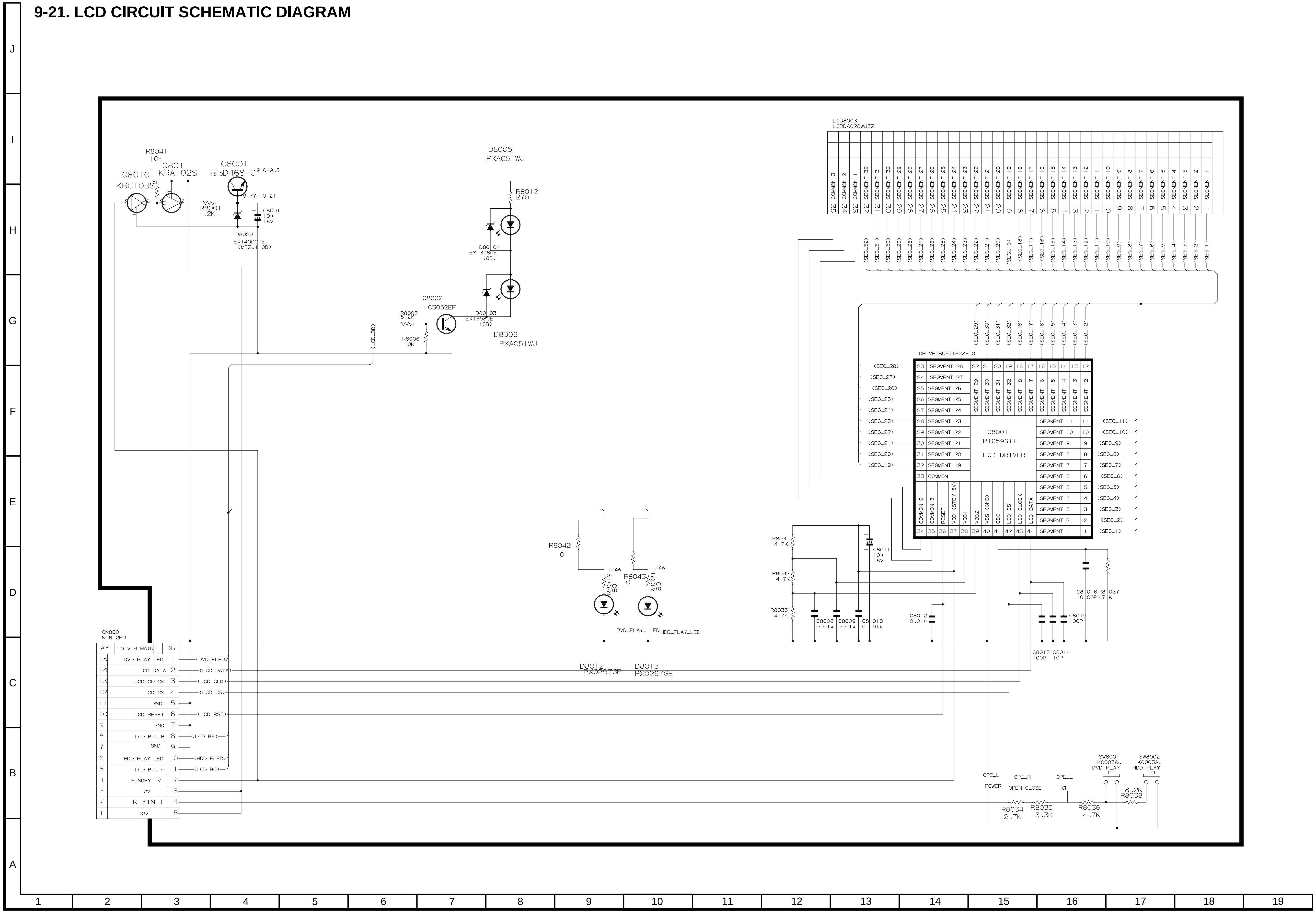
P901
AC CORD
AC IN
N0269GE or NA395WJ
F901
2A 250V
FH902
FH901
L902
FA174WJ
L901
FA078WJ
R901
470K
1/4W
R902
12M
C901
0.1uF(250V)
C902
0.1uF(250V)
C903
2200P
250V
C914
C915
D901
RL1N4005
D902
D903
D904
D906
T901
WA166WJ
Q901
K2624LS
Q902
D2144S
or 2SD2144
Q904
C3052EF
or KTC3875SY
IC901
FXA003WJ
IC902
FXA003WJ
IC903
MM1431AT
D905
EX0630GE
(9.1B)
D907
1SS119
D908
D909
D910
D911
10ERB40+
D912
ERA2206
D913
D914
FB903
00900E
R905
R906
R907
R908
R909
R910
R911
R912
R914
R916
R917
R919
R921
R922
R923
R924
R925
R926
R927
R928
R932
C905
C906
C907
C908
C909
C910
C911
C912
C927
C928
C929
C948
D9001
10ERB40+
R9001
D9003
D9005
D9006
D9007
D9008
D9009
D9010
D9011
L9001
L9002
L9003
L9004
C9001
C9003
C9004
C9005
C9006
C9007
C9008
C9009
C9010
C9011
C9017
C9018
W9002
W9007
W9013
W9014
Q9001
B1342++
DR_12V
Q9002
KRA102S
Q9015
KRC104S
Q9016
KRC104S
Q9017
A1530AR
A1504SG
Q9018
A1530AR
A1504SG
Q9014
C3052EF
or KTC3875SY
Q9004
B1592++
Q9005
KRC102S
DR_5V
Q9006
B1592++
Q9007
KRC102S
PC_5V
Q9009
B1592++
Q9008
KRC102S
ST_5V
IC9001
PQ07VK02
3.3V REG
IC9002
PQ07VK02
2.5V REG
3.3V
2.5V
D9012
D9014
D9015
D9016
D9017
D9018
D9019
D9020
D9023
D9024
D9025
D9026
W9004
W9005
W9008
W9009
C9013
C9014
C9015
C9016
C9021
C9023
C9024
R9002
R9003
R9005
R9006
R9007
R9008
R9009
R9010
R9011
R9012
R9013
R9014
R9015
R9016
R9026
R9028
R9029
R9033
R9034
R9035
R9036
R9037
R9038
R9040
R9041
N0578GE
or NA136WJ
P9001 DVD-RW DRIVE
PC_12V
GND
PC_5V
N0441CE
or N0461CE
P9002 HDD
P9003
N1178GE or NA142WJ
SUB PWB
AT_40V
PC_12V
AT_14V
AT_2.5V
AT_5V
PC_5V(I)
ST_5V
PC_3.3V(I)
P9004
N1078GE or NA141WJ
SUB PWB
DVD_P-CON
SHORT_DET
STANDBY_L
P-CON_H
AT_-8V
P9005
N1278GE or NA143WJ
MAIN PWB
AT_2.5V
PC_2.5V
PC_3.3V
PC_5V

9-21. LCD CIRCUIT SCHEMATIC DIAGRAM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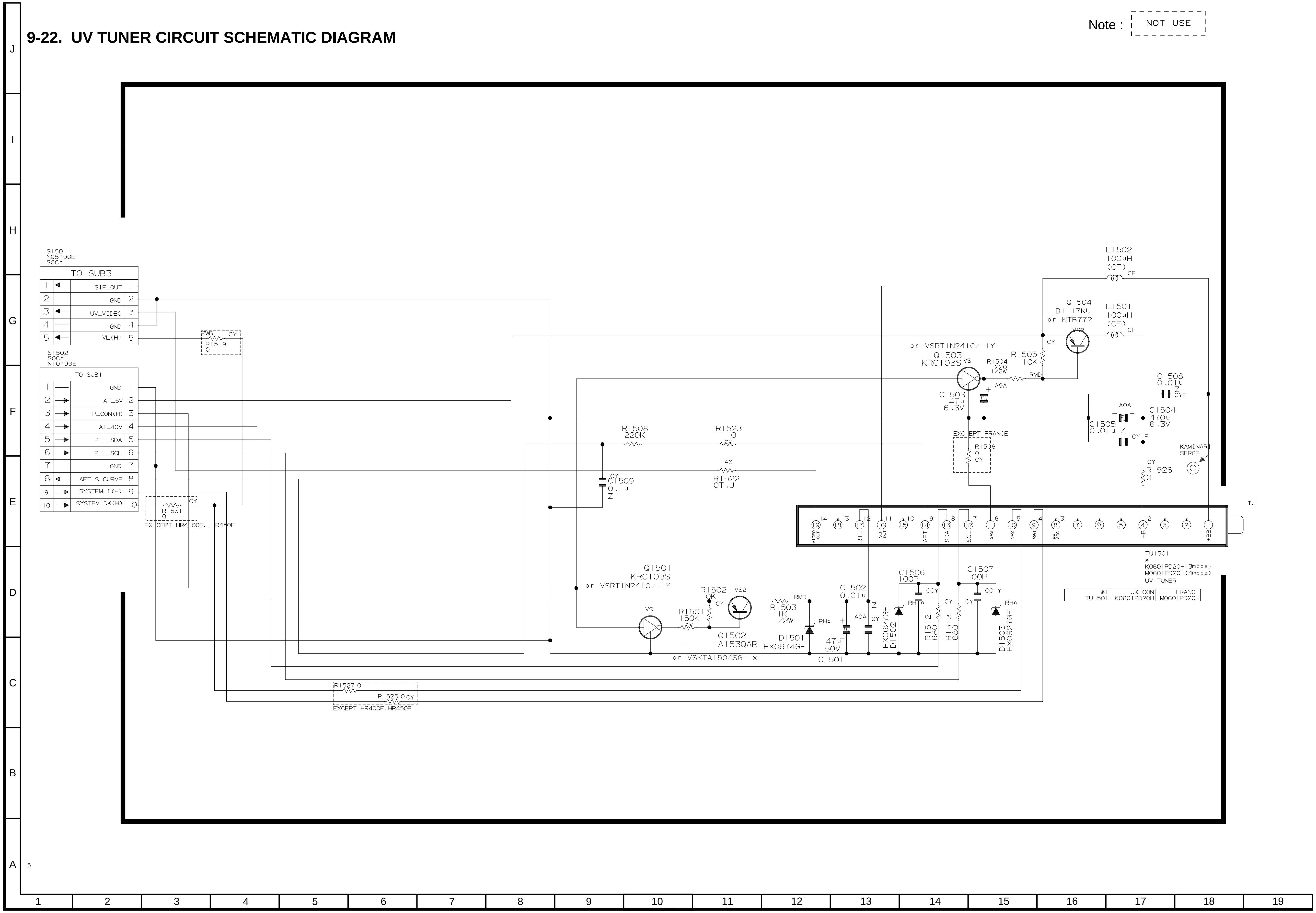
19
R8041
10K
Q8011
KRA102S
Q8010
KRC103S
Q8001
13.0 D468-C 9.0-9.5
9.77-10.21
R8001
1.2K
C8001
10u
16V
D8020
EX14000E
(MTZJ10B)
D8005
PXA051WJ
R8012
270
D8004
EX1398CE
(8B)
D8003
EX1398CE
(8B)
D8006
PXA051WJ
Q8002
C3052EF
R8003
8.2K
R8006
10K
(LCD_BB)
LCD8003
LCDDA028WJZZ
COMMON 3
COMMON 2
COMMON 1
SEGMENT 32 … SEGMENT 1
(SEG_32) … (SEG_1)
OR VHIBU9716//-1Q
IC8001
PT6596++
LCD DRIVER
SEGMENT 28
SEGMENT 27
SEGMENT 26
SEGMENT 25
SEGMENT 24
SEGMENT 23
SEGMENT 22
SEGMENT 21
SEGMENT 20
SEGMENT 19
COMMON 1
SEGMENT 29
SEGMENT 30
SEGMENT 31
SEGMENT 32
SEGMENT 18
SEGMENT 17
SEGMENT 16
SEGMENT 15
SEGMENT 14
SEGMENT 13
SEGMENT 12
SEGNENT 11
SEGMENT 10
SEGMENT 9
SEGMENT 8
SEGMENT 7
SEGMENT 6
SEGMENT 5
SEGMENT 4
SEGMENT 3
SEGNENT 2
SEGMENT 1
COMMON 2
COMMON 3
RESET
VDD (STBY 5V)
VDD1
VDD2
VSS (GND)
OSC
LCD CS
LCD CLOCK
LCD DATA
R8042
0
R8043
0
R8019
180
R8021
180
1/4W
D8012
PX0297GE
D8013
PX0297GE
DVD_PLAY_LED
HDD_PLAY_LED
R8031
4.7K
R8032
4.7K
R8033
4.7K
C8011
10u
16V
C8008
0.01u
C8009
0.01u
C8010
0.01u
C8012
0.01u
C8013
100P
C8014
10P
C8015
100P
C8016
100P
R8037
47K
CN8001
N0612FJ
AY
TO VTR MAIN1
DB
15 DVD_PLAY_LED 1 (DVD_PLED)
14 LCD DATA 2 (LCD_DATA)
13 LCD_CLOCK 3 (LCD_CLK)
12 LCD_CS 4 (LCD_CS)
11 GND 5
10 LCD RESET 6 (LCD_RST)
9 GND 7
8 LCD_B/L_B 8 (LCD_BB)
7 GND 9
6 HDD_PLAY_LED 10 (HDD_PLED)
5 LCD_B/L_0 11 (LCD_B0)
4 STNDBY 5V 12
3 12V 13
2 KEYIN_1 14
1 12V 15
OPE_L
POWER
OPE_R
OPEN/CLOSE
OPE_L
CH-
SW8001
K0003AJ
DVD PLAY
SW8002
K0003AJ
HDD PLAY
R8034
2.7K
R8035
3.3K
R8036
4.7K
R8038
8.2K

9-22. UV TUNER CIRCUIT SCHEMATIC DIAGRAM

Note : NOT USE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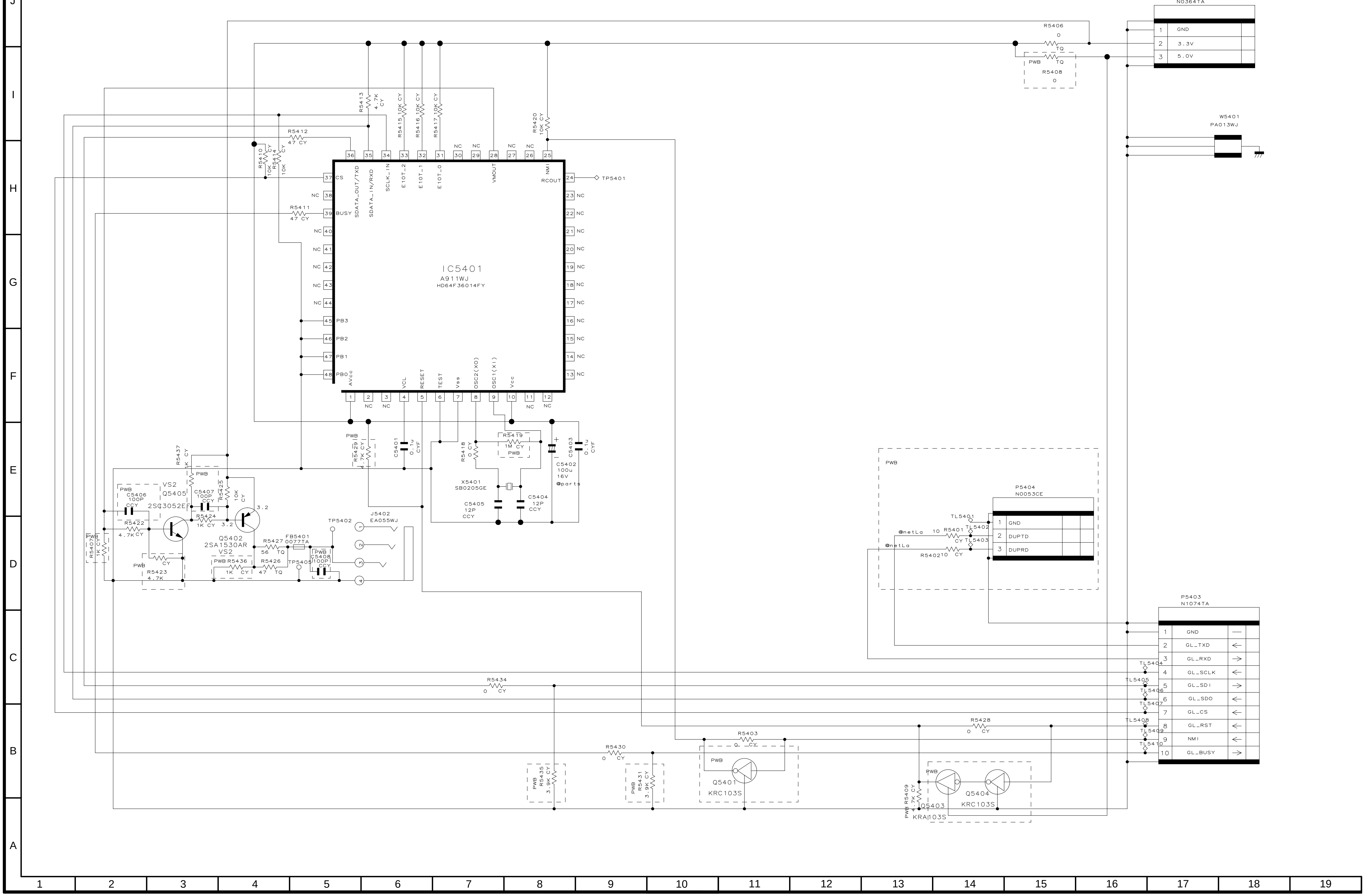
19
S1501
N0579GE
50Ch
TO SUB3
SIF_OUT
GND
UV_VIDEO
GND
VL(H)
S1502
50Ch
N1079GE
TO SUB1
GND
AT_5V
P_CON(H)
AT_40V
PLL_SDA
PLL_SCL
GND
AFT_S_CURVE
SYSTEM_I(H)
SYSTEM_DK(H)
R1519
0
R1531
0
EXCEPT HR400F, HR450F
R1527 0
R1525 0
EXCEPT HR400F, HR450F
R1508
220K
R1523
0
R1522
0T.J
C1509
0.1u
Z
Q1501
KRC103S
or VSRTIN241C/-1Y
R1502
10K
R1501
150K
Q1502
A1530AR
or VSKTA1504SG-1*
R1503
1K
1/2W
D1501
EX0674GE
C1501
47u
50V
C1502
0.01u
C1506
100P
D1502
EX0627GE
R1512
680
R1513
680
C1507
100P
D1503
EX0627GE
Q1503
KRC103S
or VSRTIN241C/-1Y
R1504
220
1/2W
C1503
47u
6.3V
R1505
10K
Q1504
B1117KU
or KTB772
L1502
100uH
(CF)
L1501
100uH
(CF)
C1508
0.01u
C1504
470u
6.3V
C1505
0.01u
EXCEPT FRANCE
R1506
0
R1526
0
KAMINARI
SERGE
TU
VIDEO OUT
BTL
SIF OUT
AFT
SDA
SCL
SAS
SW2
SW1
RF AGC
+B
+BB
TU1501
*1
K0601PD20H(3mode)
M0601PD20H(4mode)
UV TUNER
*1
UK CON
FRANCE
TU1501
K0601PD20H
M0601PD20H

9-23. GLINK CIRCUIT SCHEMATIC DIAGRAM

Note : NOT USE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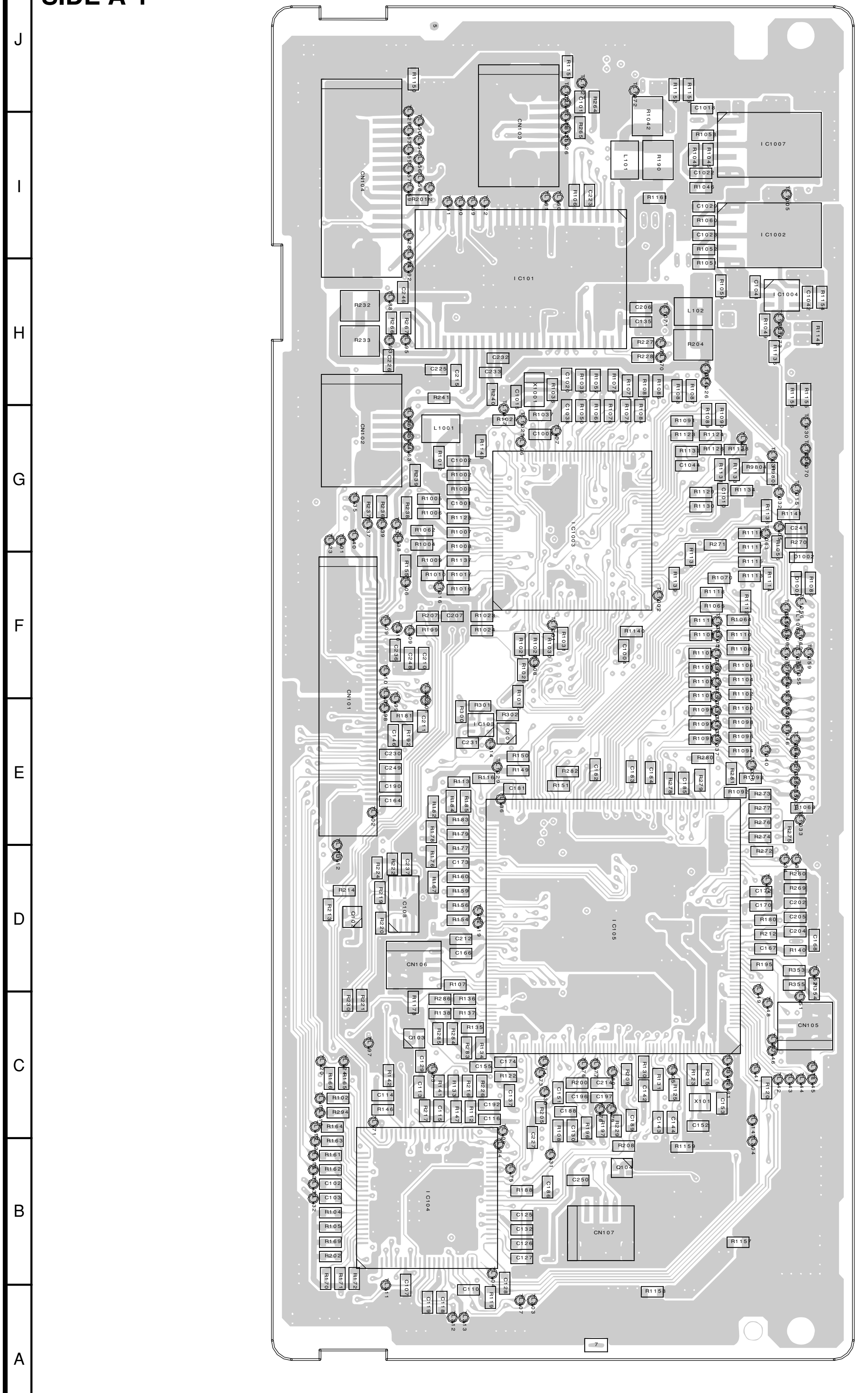
19
IC5401
A911WJ
HD64F36014FY
CS
BUSY
PB3
PB2
PB1
PB0
SDATA_OUT/TXD
SDATA_IN/RXD
SCLK_IN
E10T_2
E10T_1
E10T_0
VMOUT
NMI
RCOUT
AVcc
VCL
RESET
TEST
Vss
OSC2(XO)
OSC1(XI)
Vcc
NC
TP5401
P5402
N0364TA
GND
3.3V
5.0V
R5406
0
TQ
PWB
R5408
0
W5401
PA013WJ
R5412
47 CY
R5411
47 CY
R5410
10K CY
R5414
10K CY
R5413
4.7K CY
R5415 10K CY
R5416 10K CY
R5417 10K CY
R5420
10K CY
R5429
4.7K CY
C5401
0.1u
CYF
R5418
0 CY
R5419
1M CY
C5402
100u
16V
@parts
C5403
0.1u
CYF
X5401
SB0205GE
C5405
12P
CCY
C5404
12P
CCY
R5437
1K CY
VS2
Q5405
2SC3052EF
C5406
100P
CCY
C5407
100P
CCY
R5425
10K CY
3.2
R5422
4.7K CY
R5424
1K CY
R5407
1K CY
R5423
4.7K
Q5402
2SA1530AR
R5436
1K CY
R5427
56 TQ
FB5401
0077TA
R5426
47 TQ
TP5405
C5408
100P
CCY
TP5402
J5402
EA055WJ
P5404
N0053CE
TL5401
TL5402
TL5403
R5401
10 CY
R5402
10 CY
@netLa
DUPTD
DUPRD
P5403
N1074TA
GL_TXD
GL_RXD
GL_SCLK
GL_SDI
GL_SDO
GL_CS
GL_RST
GL_BUSY
TL5404
TL5405
TL5406
TL5407
TL5408
TL5409
TL5410
R5434
0 CY
R5428
0 CY
R5403
0 CY
R5430
0 CY
R5435
3.9K CY
R5431
3.9K CY
Q5401
KRC103S
Q5403
KRA103S
Q5404
KRC103S
R5409
4.7K CY

10. PRINTED WIRING BOARD ASSEMBLIES

WRITER MAIN PWB

SIDE A-1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IC101
IC1003
IC105
IC104
IC1007
IC1002
IC1004
CN104
CN103
CN102
CN101
CN106
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L1001
X1001
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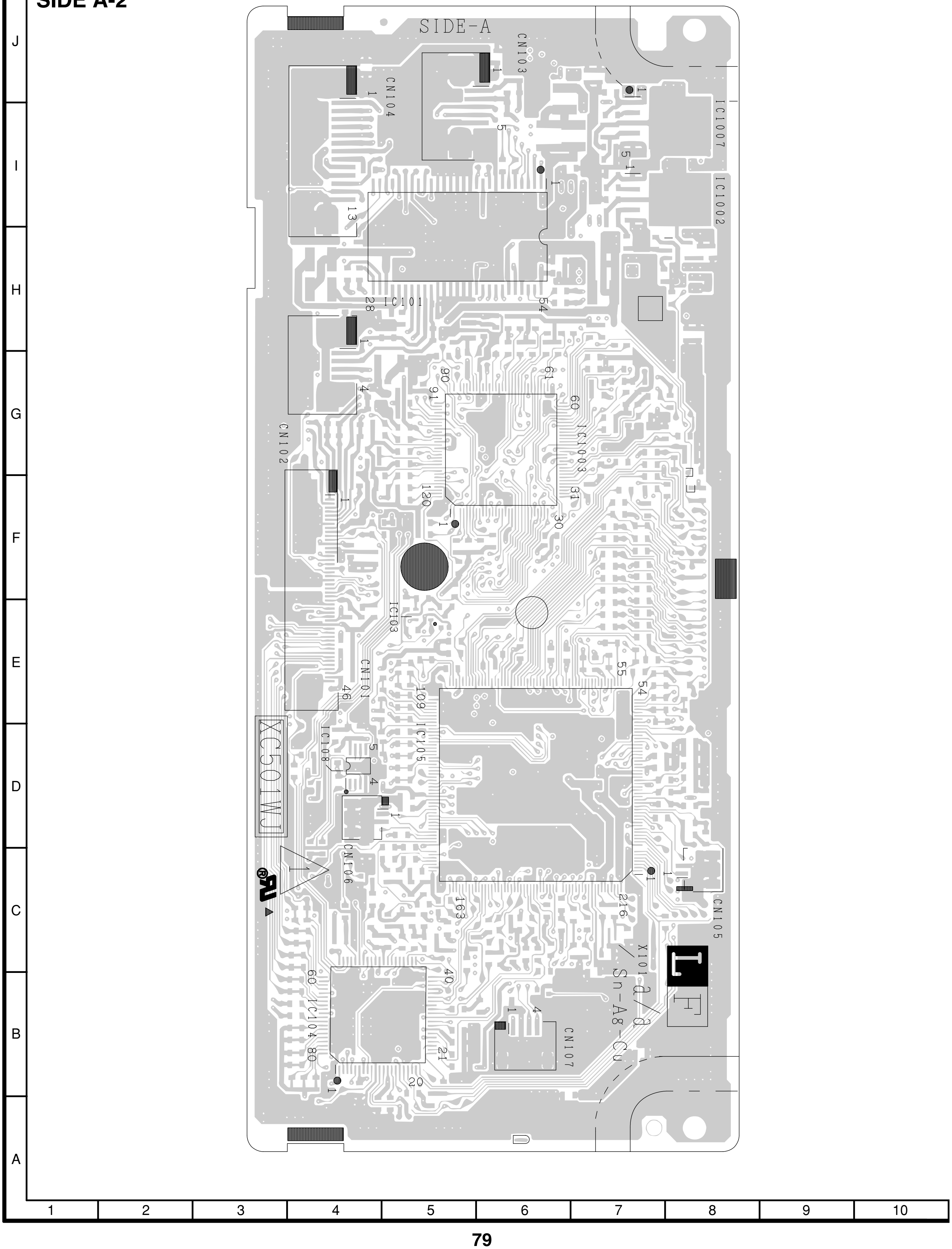
R233
R204
R1042
R190

SIDE A-2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SIDE-A
CN103
CN104
IC1007
IC1002
IC101
28
54
13
CN102
IC1003
90
91
61
60
120
31
30
IC103
CN101
46
109
IC105
55
54
IC108
XC501WJ
CN106
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LF
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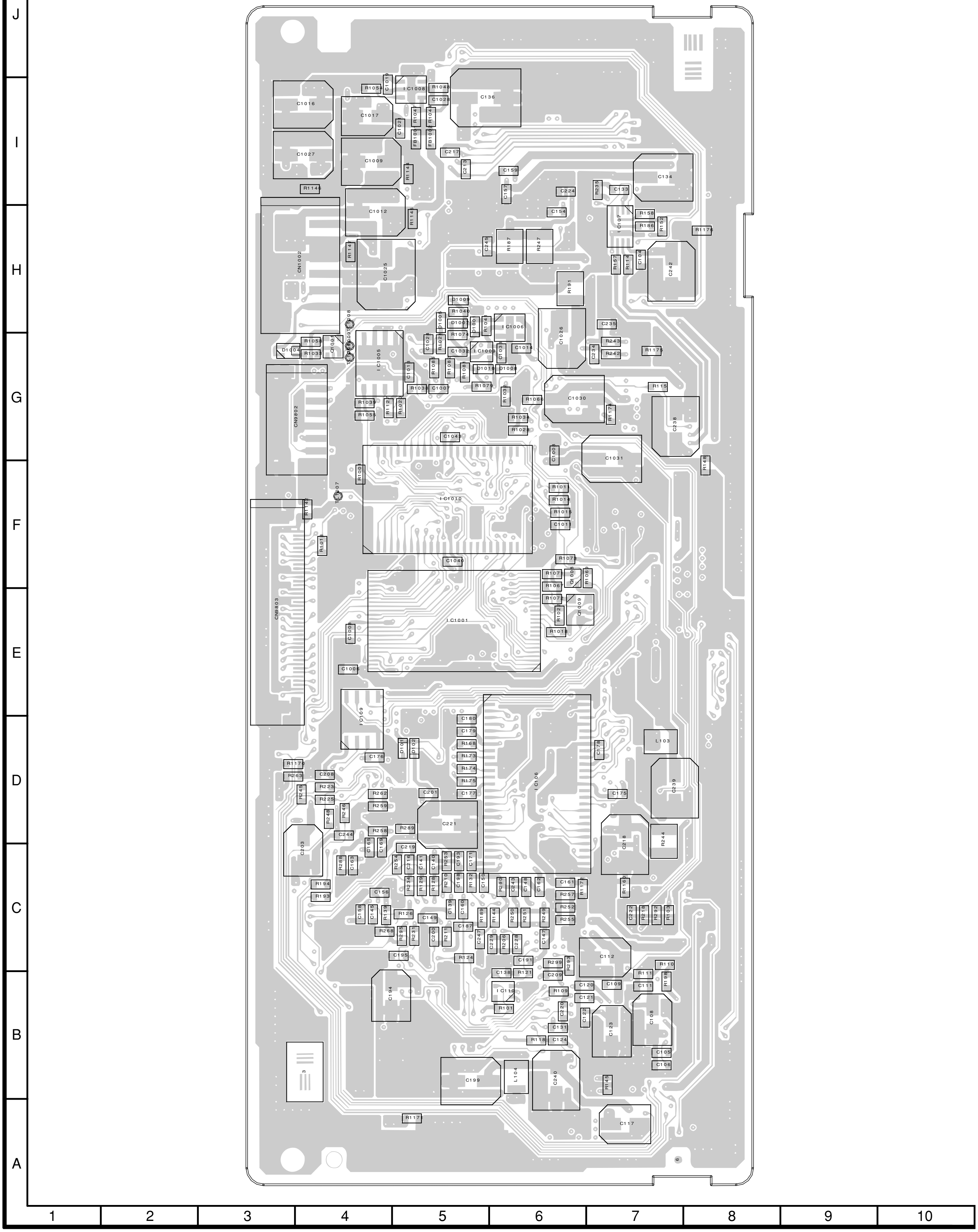
21
20
CN107

WRITER MAIN PWB
SIDE B-1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C1016
C1027
C1017
C1009
C1012
C1025
IC1008
R1048
C1028
C136
C217
C159
C134
C224
C133
C154
R158
R186
IC107
R187
R247
C245
R1176
C242
R191
CN1002
IC1006
C1026
C235
R243
R242
C234
R1175
IC1005
C1030
R115
C238
C1031
CN9802
IC1010
R148
C1040
IC1001
CN9803
C1006
IC109
C180
C179
R168
R173
R174
R175
C177
L103
IC106
C239
C175
R1179
R263
C208
R223
R225
R262
R259
C201
C221
R256
R289
C244
C203
C218
R244
C219
R194
R193
C156
R126
C149
R268
C161
R257
R252
R255
C195
R124
C191
C112
R110
R299
C209
R111
C111
C120
C109
C138
R121
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R109
C121
C194
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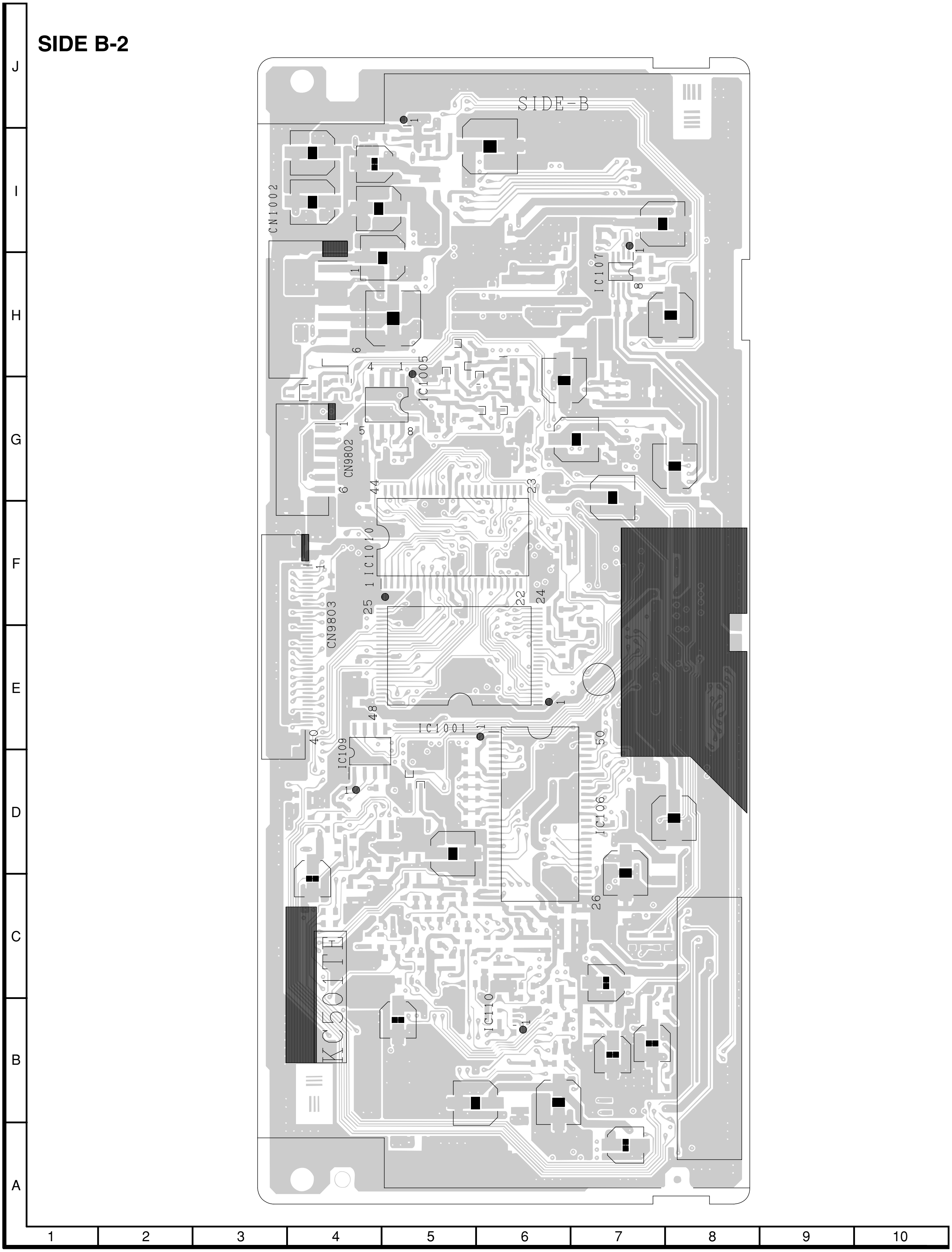
R1177
C117

SIDE B-2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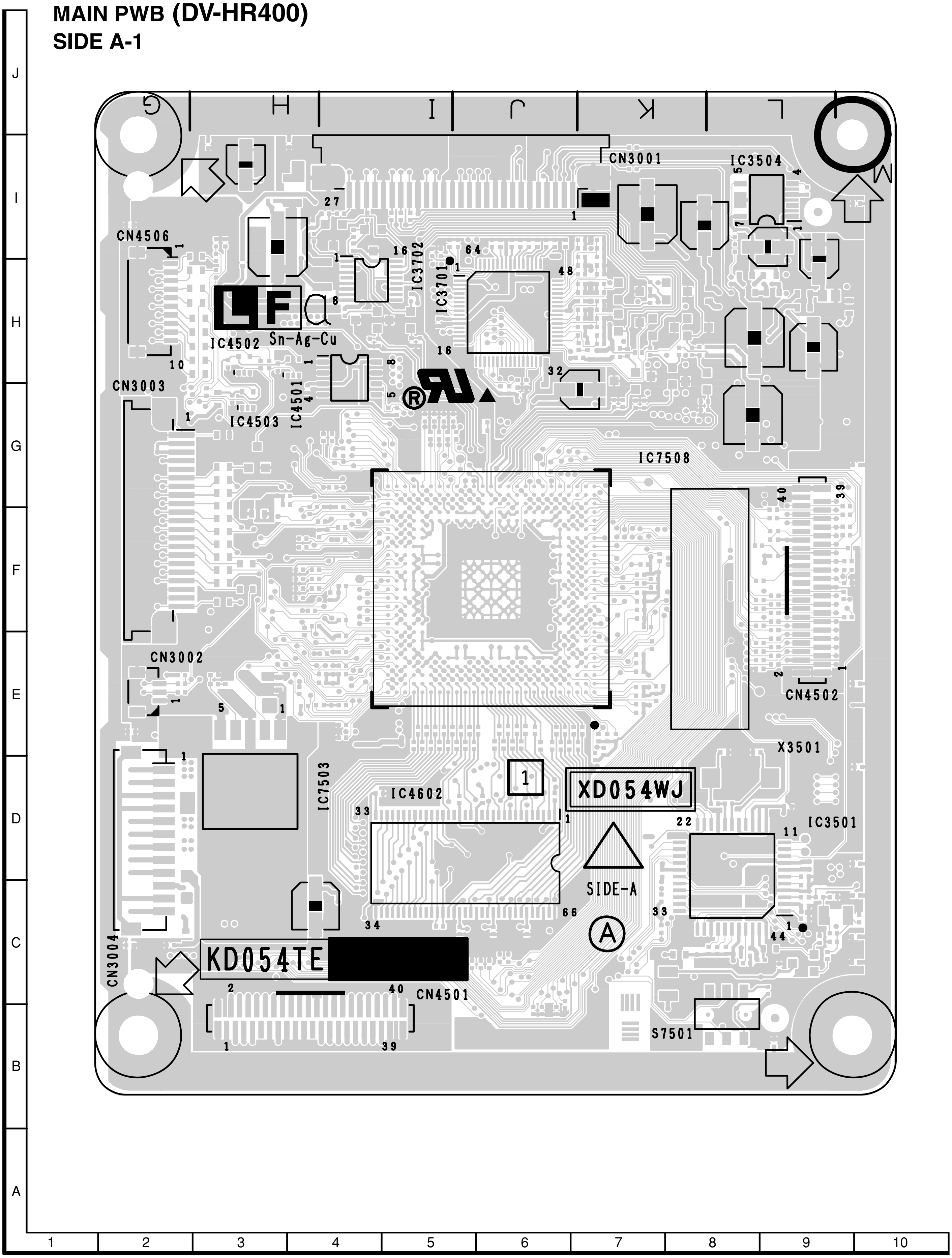
MAIN PWB (DV-HR400)
SIDE A-1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CN3001
IC3504
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CN4506
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16
IC3702
64
1
IC3701
48
8
LF
Sn-Ag-Cu
IC4502
10
CN3003
1
8
5
16
32
IC4501
4
IC4503
IC7508
40
39
2
1
CN4502
CN3002
1
5
1
1
IC7503
X3501
IC4602
33
1
XD054WJ
22
IC3501
11
SIDE-A
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CN4501
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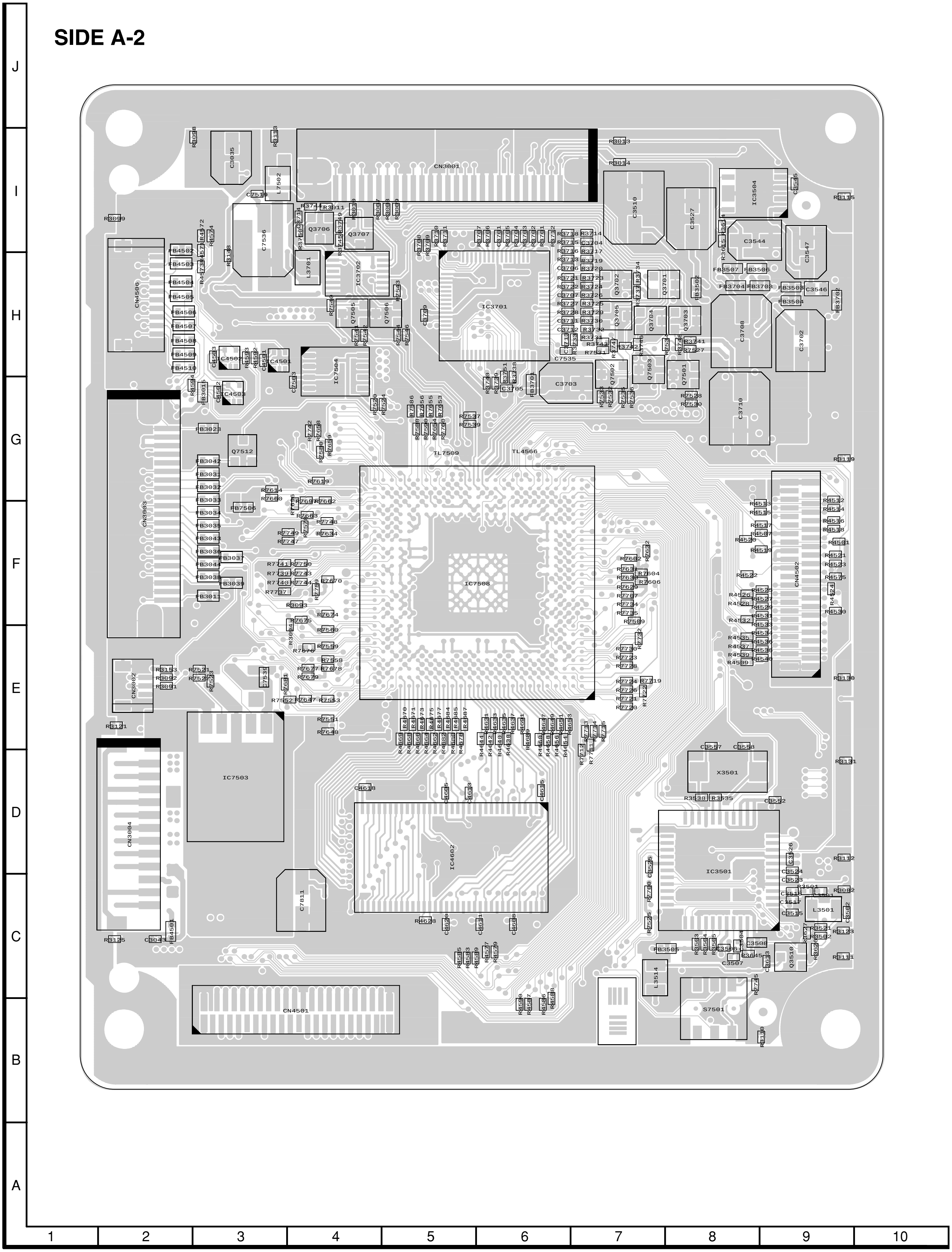
S7501

SIDE A-2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C3035
L7502
C7519
C7536
Q3706
Q3707
L3701
IC3702
IC3701
C3510
C3527
IC3504
C3544
C3547
C3546
Q3702
Q3701
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Q3703
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C3702
CN4506
C4502
C4501
C4503
IC7504
Q7505
Q7506
C3703
Q7502
Q7503
Q7501
C3710
CN3003
Q7512
FB7506
TL7509
TL4566
IC7508
CN4502
CN3002
IC7503
CN3004
IC4602
C7811
X3501
IC3501
L3501
L3514
S7501
CN4501
FB3023
FB3042
FB3031
FB3032
FB3033
FB3034
FB3035
FB3043
FB3036
FB3044
FB3038
FB3011
FB3037
FB3039
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FB4510
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FB3703
FB3503
FB3504
FB3505
R3013
R3014
R3115
R3099
R3119
R3130
R3131
R3112
R3082
R3123
R3111
R3121
R3125
C3043
R3153
R3092
R3091
R3093
C3557
C3558
C3552
R3538
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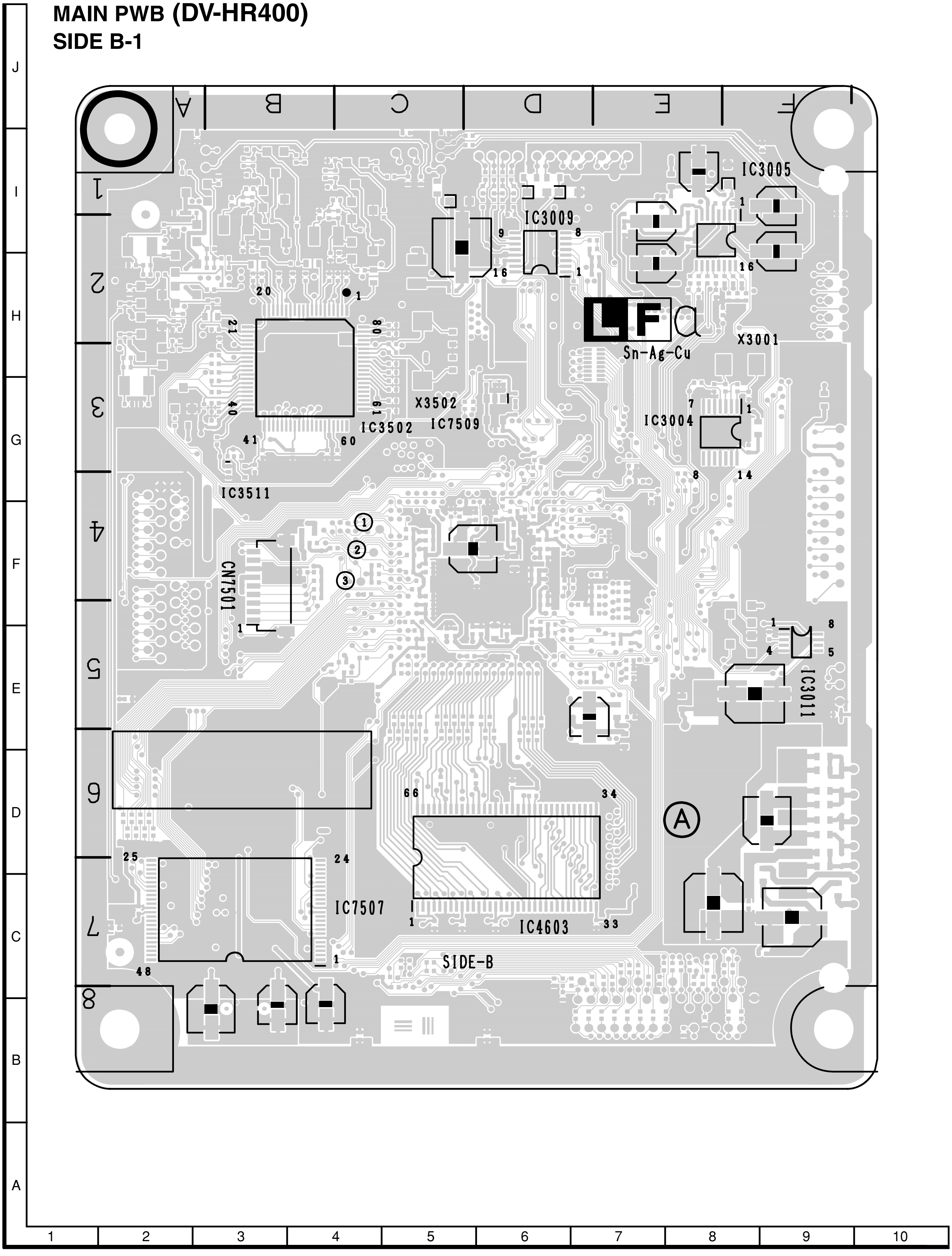
R4623
C4620
C4621
C4608
C7535
C3705

MAIN PWB (DV-HR400)
SIDE B-1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IC3005
IC3009
IC3502
IC3511
IC3004
IC7509
IC3011
IC7507
IC4603
X3502
X3001
CN7501
LF
Sn-Ag-Cu
SIDE-B
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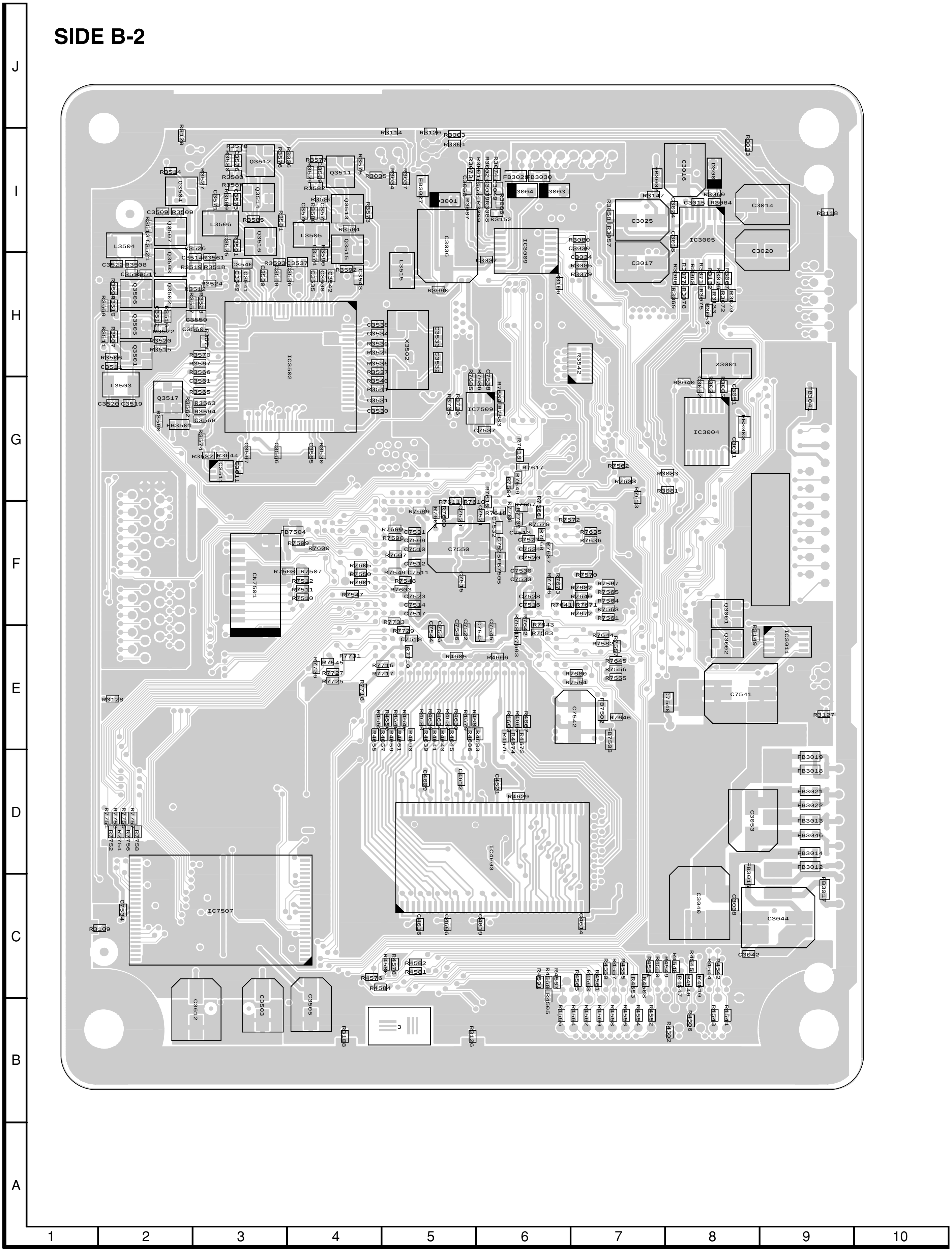
③
Ⓐ

SIDE B-2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IC3502
IC3009
IC3005
IC3004
IC7509
IC3011
IC4603
IC7507
CN7501
X3502
X3001
C7550
C7541
C7542
C3036
C3025
C3017
C3014
C3020
C3016
C3053
C3040
C3044
C3042
C3012
C3503
C3505
L3504
L3506
L3505
L3503
L3515
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Q3513
Q3515
Q3516
Q3504
Q3507
Q3503
Q3506
Q3502
Q3505
Q3501
Q3517
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Q3002
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D3004
D3003
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FB3022
FB3013
FB3046
FB3014
FB3012
FB3016
FB3017
R3114
R3120
R3003
R3004
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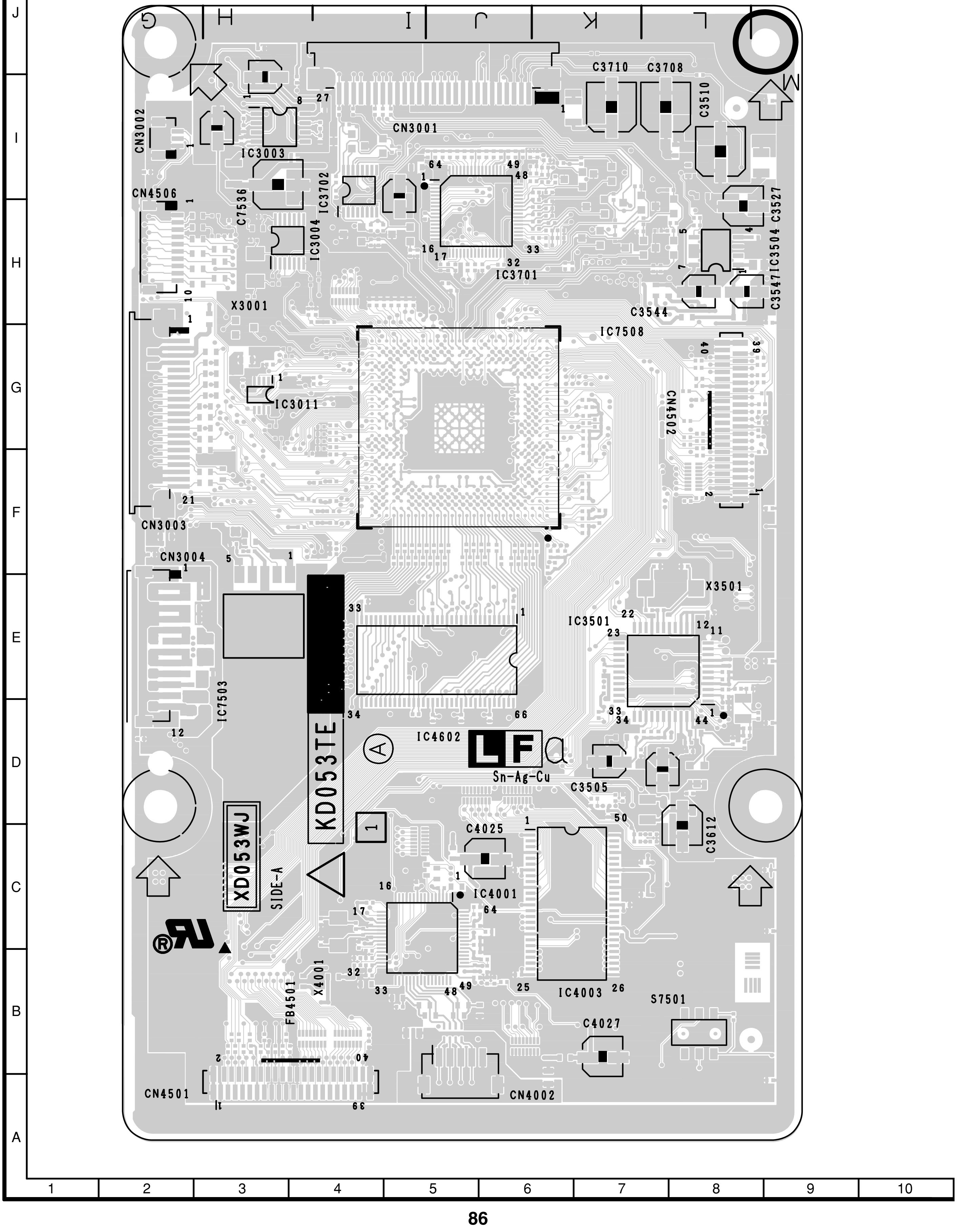
R3128
R3127
R3109
R3138
R3126

MAIN PWB (DV-HR450/DV-HR480)
SIDE A-1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H
I
J
K
L
M
C3710
C3708
C3510
CN3001
CN3002
IC3003
CN4506
C7536
IC3702
IC3004
IC3701
C3527
IC3504
C3547
C3544
X3001
IC7508
CN4502
IC3011
CN3003
CN3004
X3501
IC3501
IC7503
IC4602
LF
Sn-Ag-Cu
C3505
KD053TE
XD053WJ
SIDE-A
C4025
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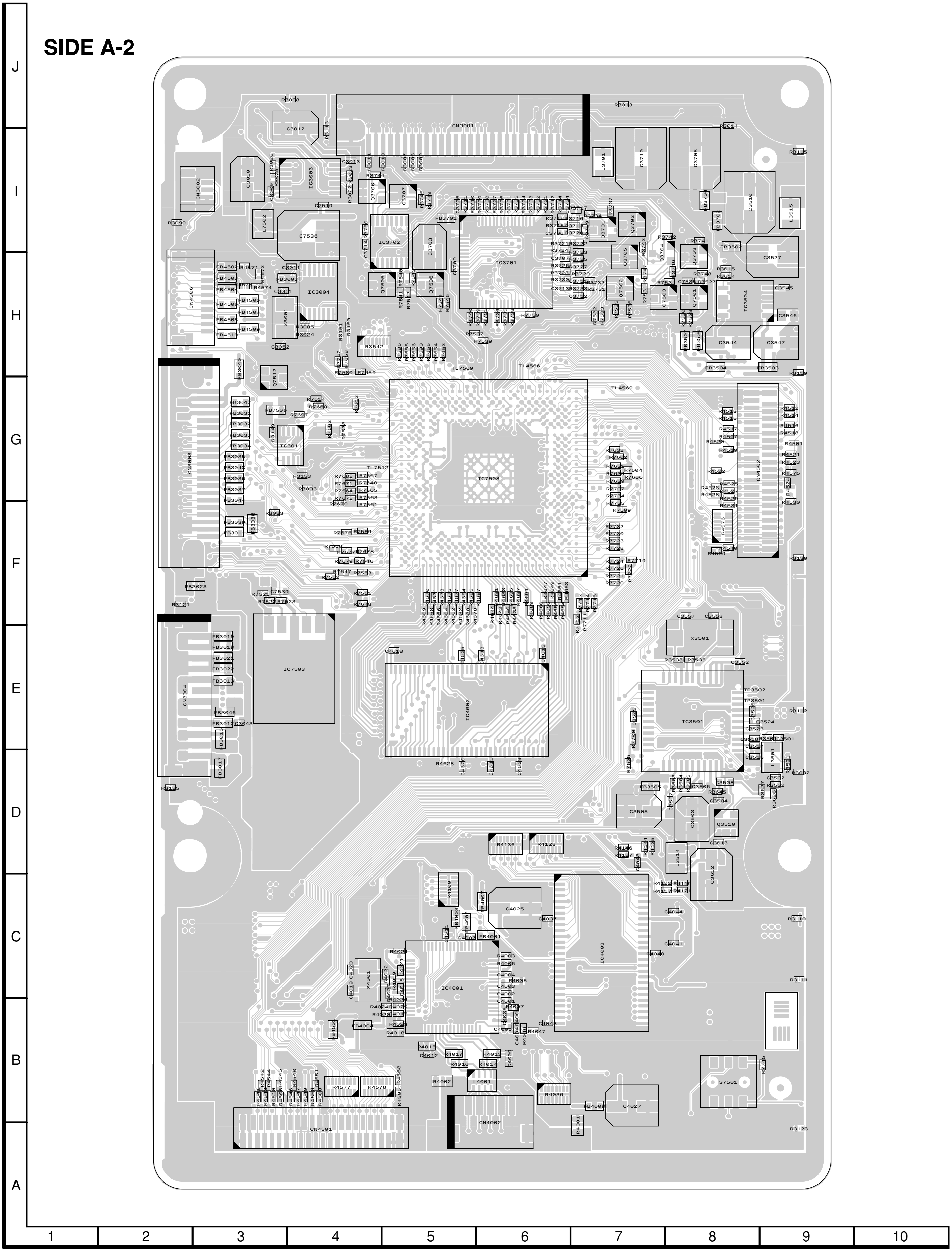
IC4003
S7501
C4027
FB4501
X4001
CN4501
CN4002

SIDE A-2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CN3001
C3012
C3010
CN3002
IC3003
L3701
C3710
C3708
C3510
L3515
L7502
C7536
IC3702
C3703
IC3701
Q3706
Q3707
Q3701
Q3702
Q3705
Q3704
Q3703
FB3502
C3527
CN4506
IC3004
X3001
Q7505
Q7506
Q7502
Q7503
Q7501
IC3504
C3545
C3546
C3544
C3547
R3542
TL4566
TL7509
TL4569
Q7512
FB7506
IC3011
CN3003
CN4502
TL7512
IC7508
R4570
FB3023
IC7503
CN3004
C3557
C3558
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C3503
Q3510
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C3612
R4100
C4025
IC4003
X4001
IC4001
FB4004
S7501
R4577
R4578
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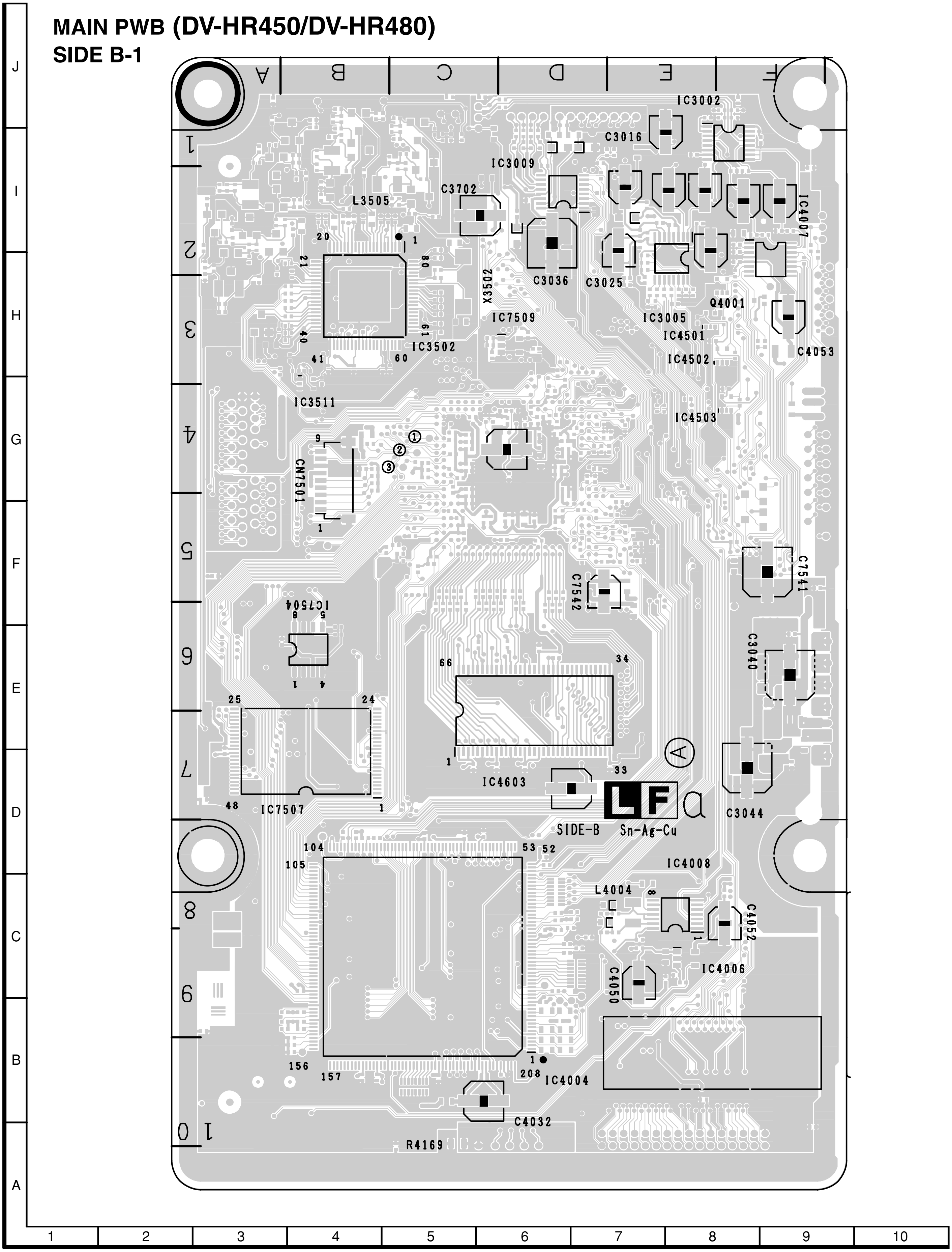
CN4002
R4001

MAIN PWB (DV-HR450/DV-HR480)
SIDE B-1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IC3002
C3016
IC3009
C3702
L3505
IC4007
20
1
21
80
X3502
C3036
C3025
IC3005
Q4001
IC7509
IC4501
C4053
40
61
IC3502
41
60
IC4502
IC3511
IC4503
9
①
②
③
CN7501
1
C7541
C7542
IC7504
8
5
1
4
C3040
66
34
25
24
1
33
IC4603
C3044
48
IC7507
1
SIDE-B
Sn-Ag-Cu
104
53
52
105
IC4008
L4004
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C4050
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IC4004
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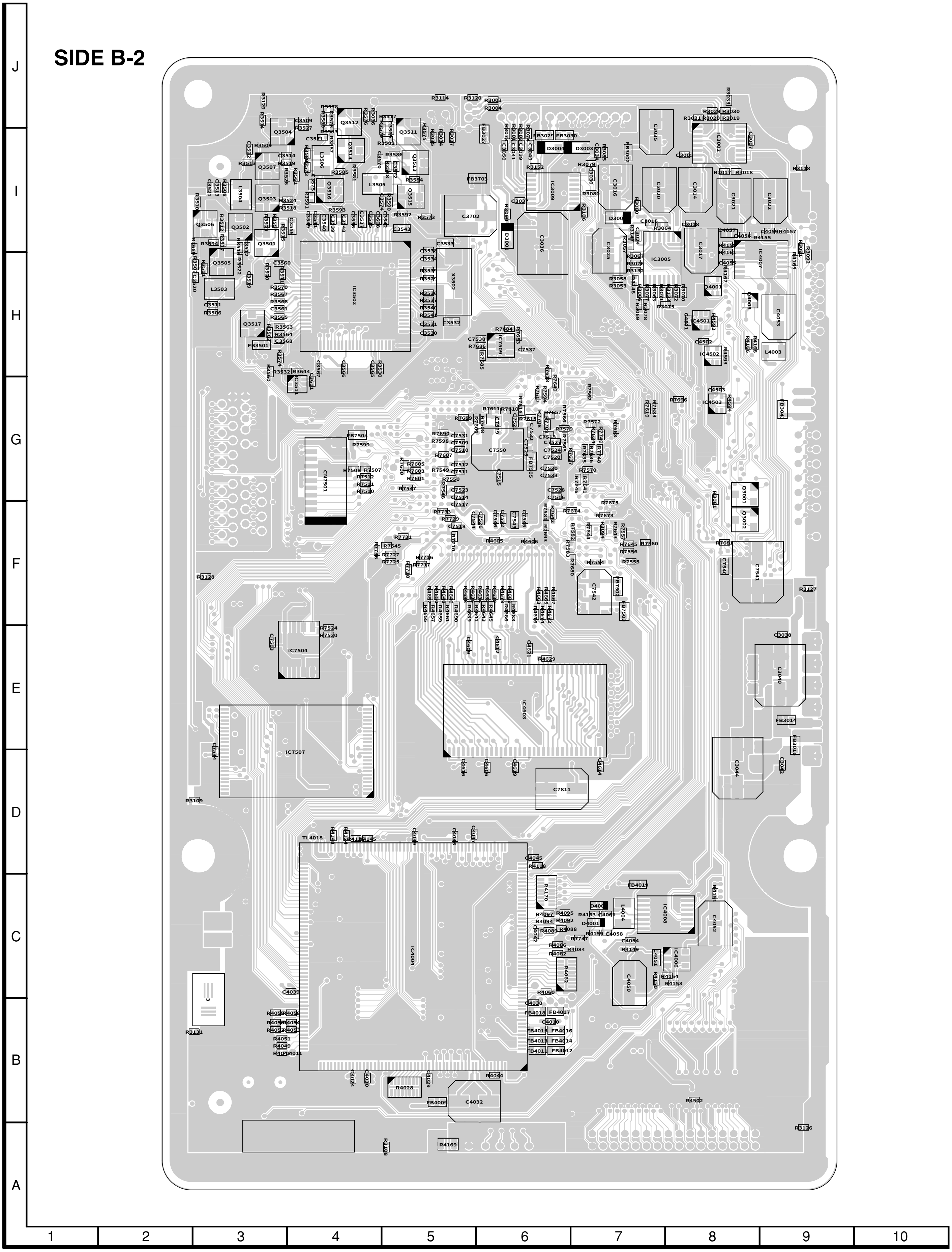
SIDE B-2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IC3502
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Q3503
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Q3506
Q3507
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Q3516
Q3517
Q3001
Q3002
Q4001
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FB3501
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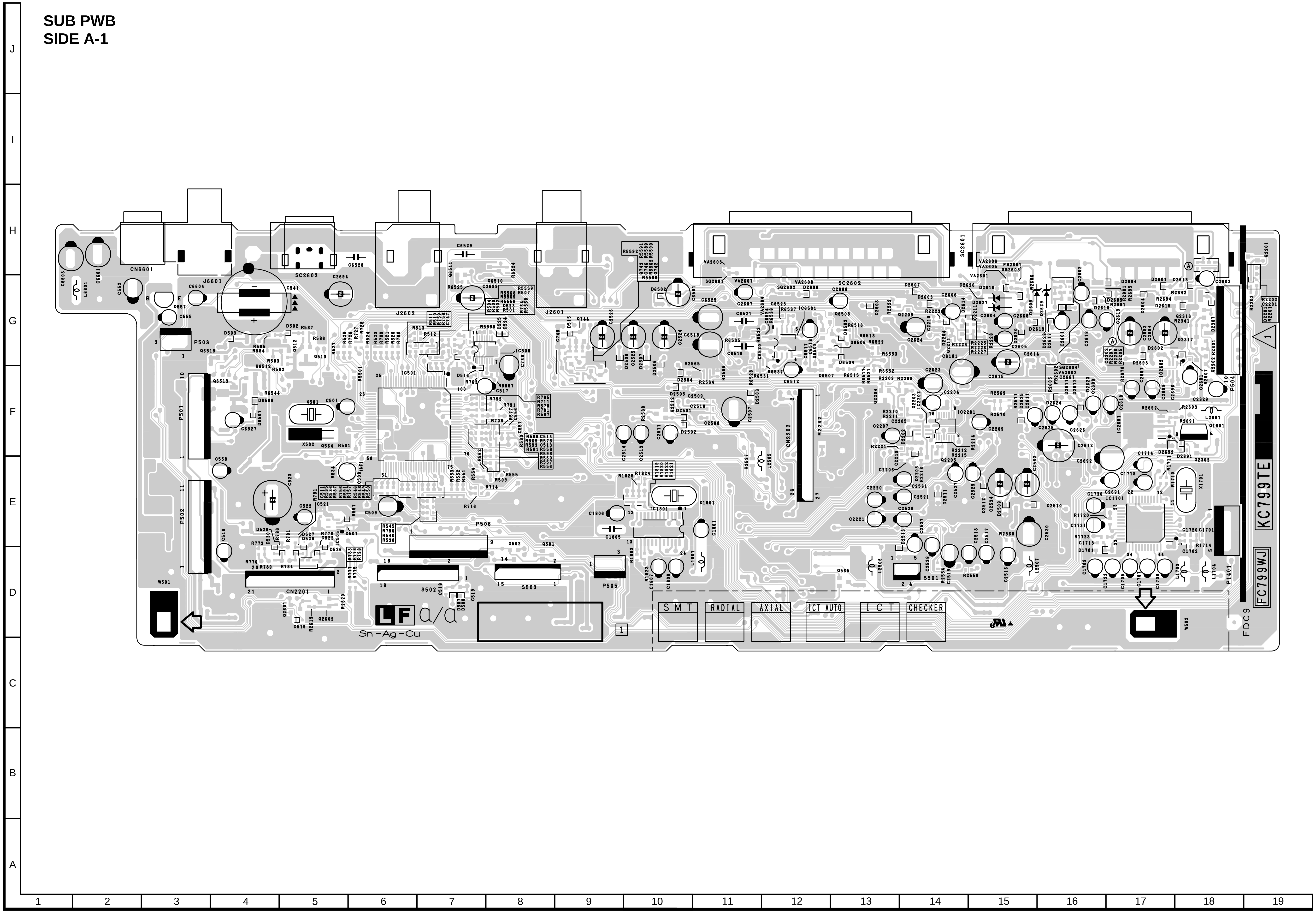
R3118
R4502

SUB PWB
SIDE A-1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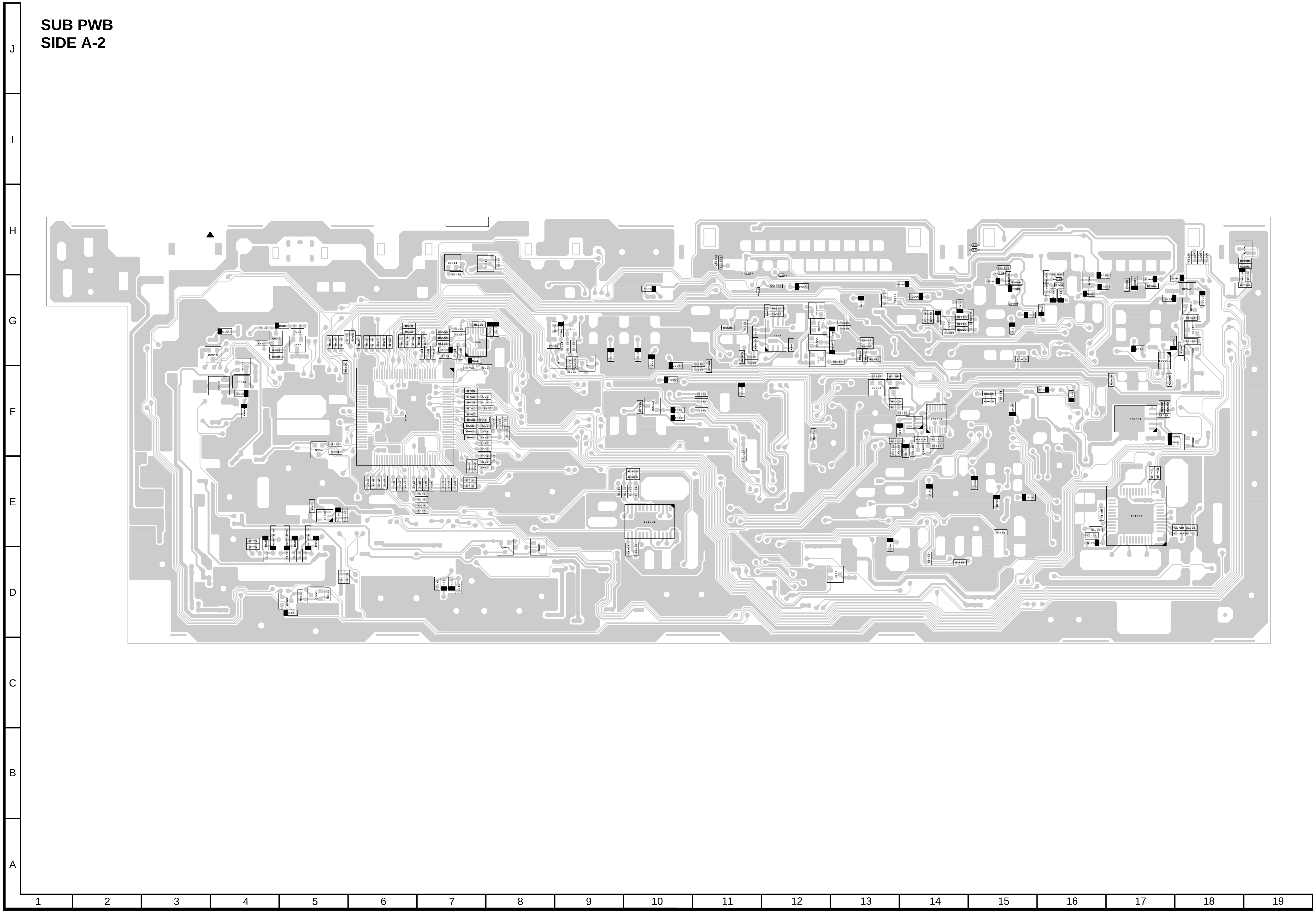
CN6601
J6601
SC2603
J2602
J2601
SC2602
SC2601
P503
P501
P502
IC501
IC508
X501
X502
CN2201
S502
S503
P506
P505
IC1801
X1801
CN2202
IC2201
IC1701
X1701
P504
P1401
S501
W501
W502
SMT
RADIAL
AXIAL
ICT AUTO
ICT
CHECKER
LF
Sn-Ag-Cu
KC799TE
FC799WJ
FDC9

SUB PWB
SIDE A-2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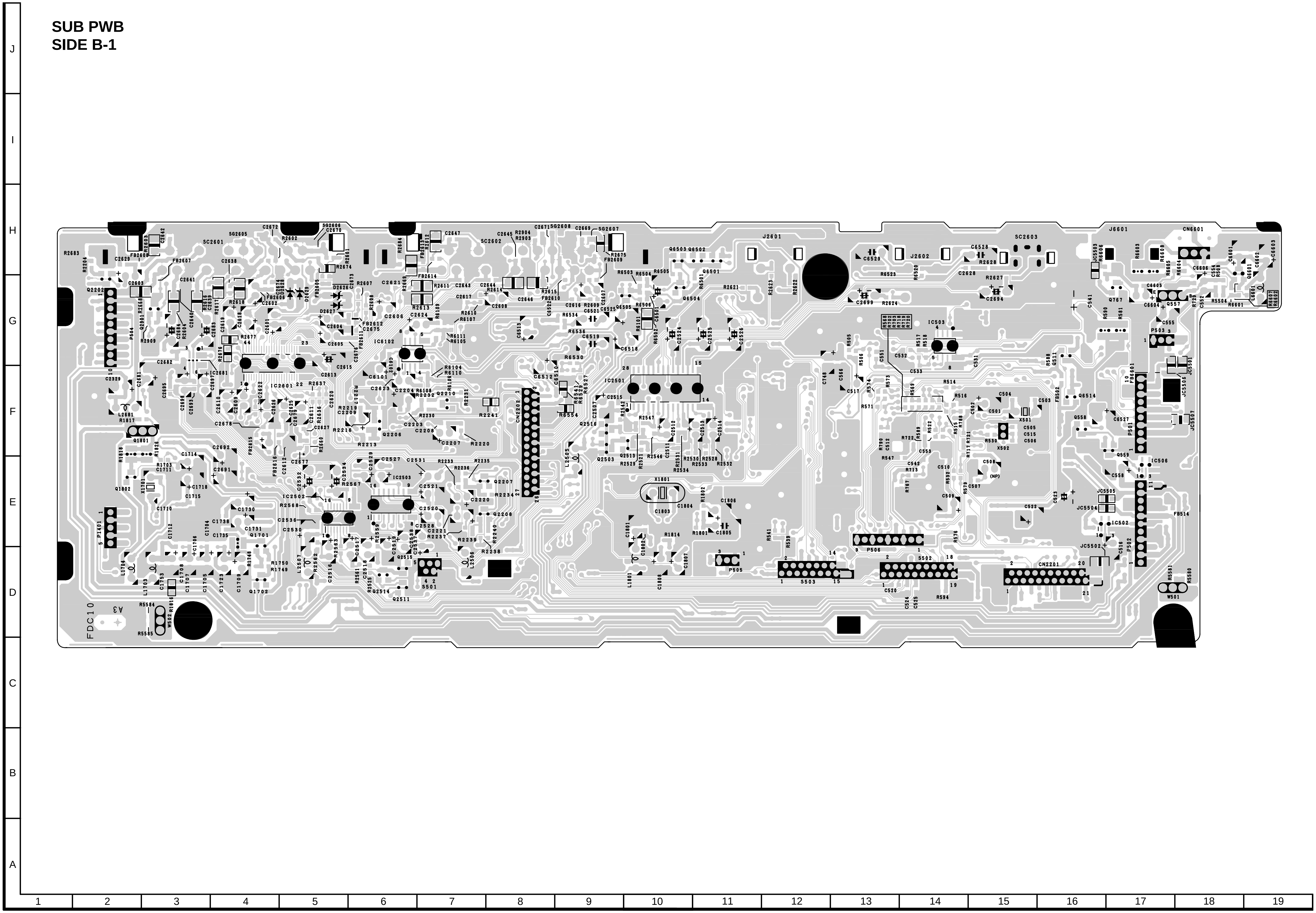
SUB PWB
SIDE B-1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W502
Q1801
Q1802
Q1701
Q1702
Q2202
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Q2208
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Q6504
Q6505
Q557
Q558
Q559
Q767
JC5501
JC5502
JC5503
JC5504
JC5505
JC5506
JC5507
FB514
FB6601
L2505
L2506
L2507
L1801
L1703
L1704
L2681
L6601
C1803
C1804
C1805
C1806
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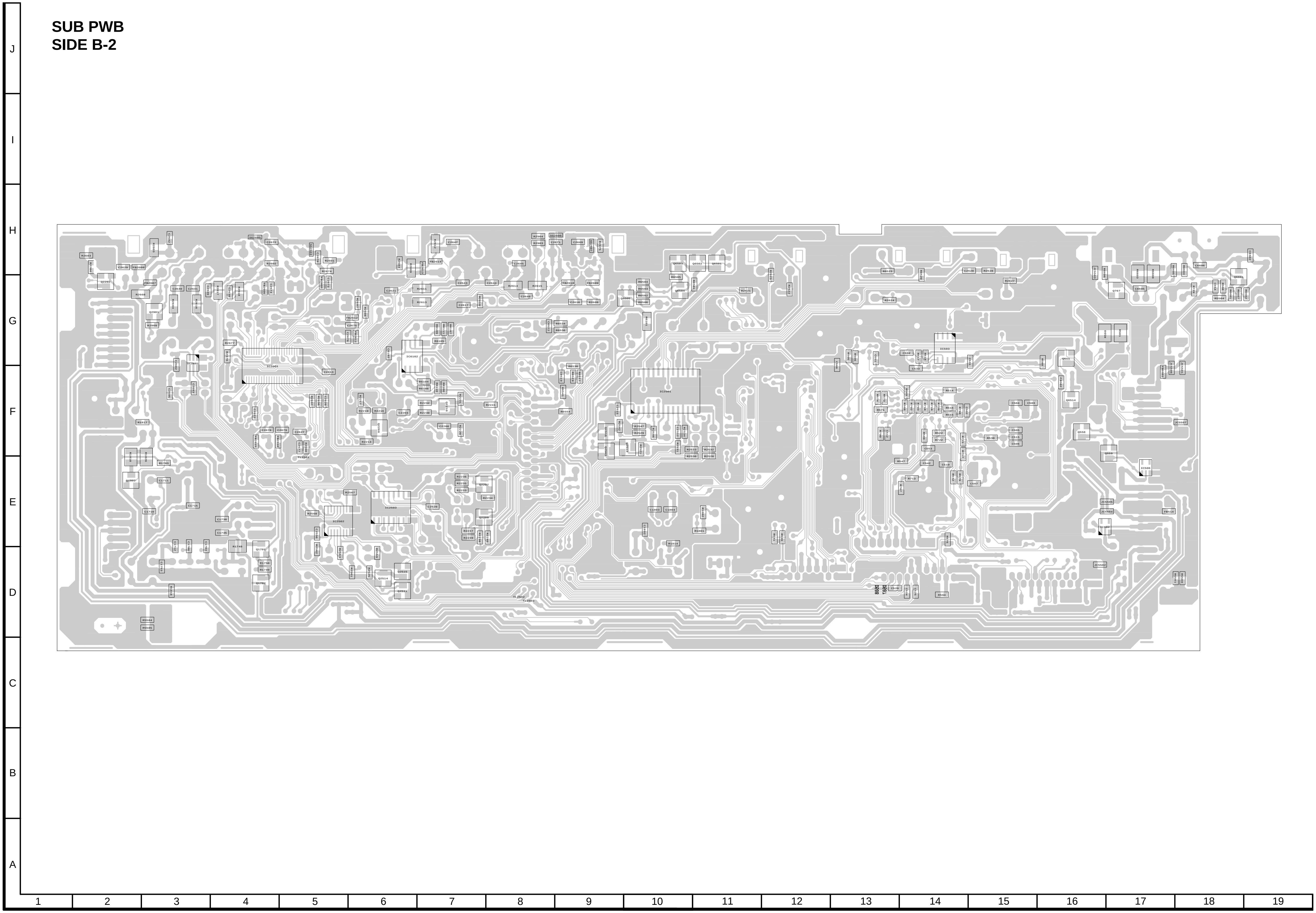
A3
(NP)

SUB PWB
SIDE B-2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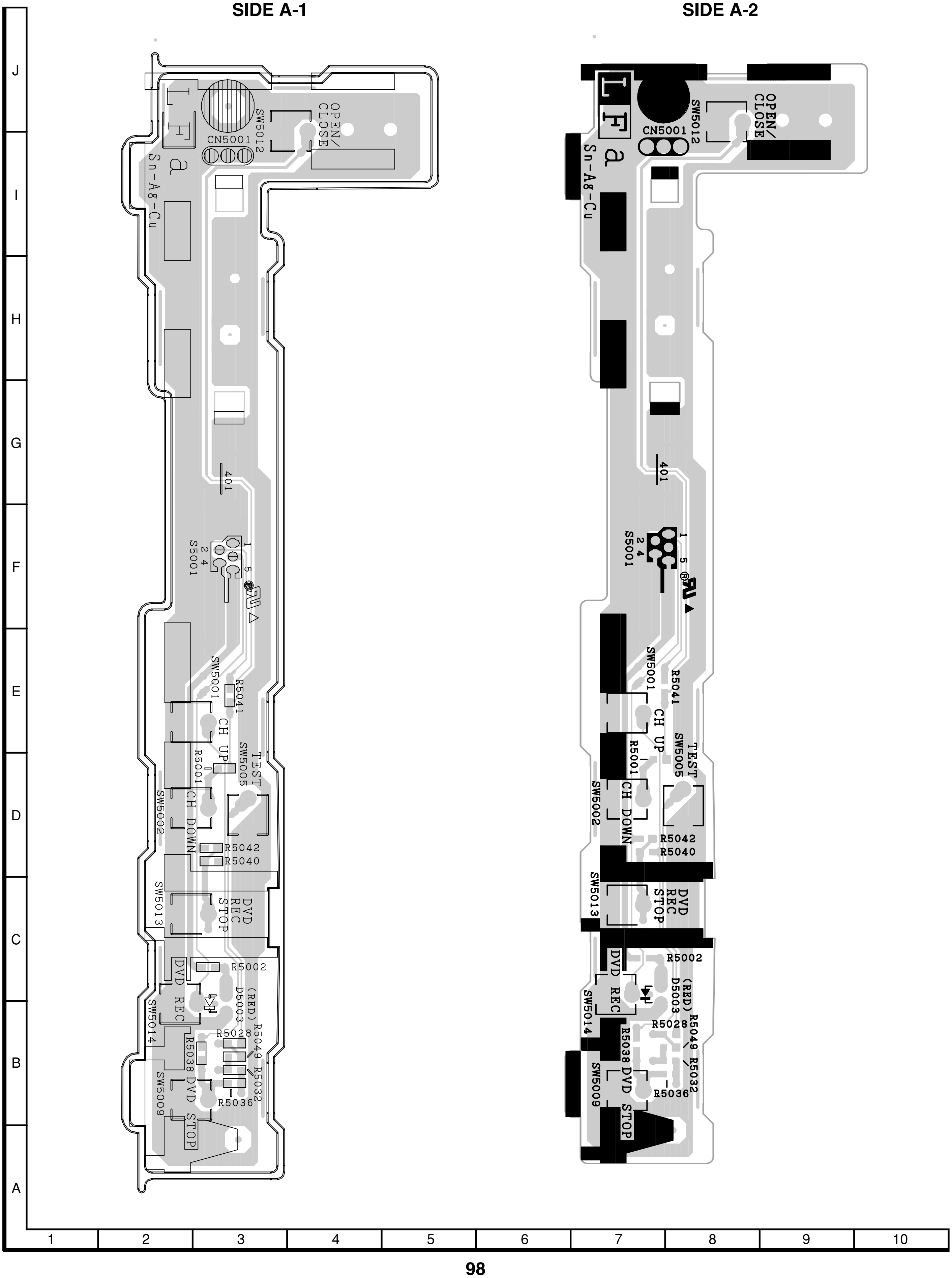
OPERATION (R) PWB



SIDE A-1

SIDE A-2

J
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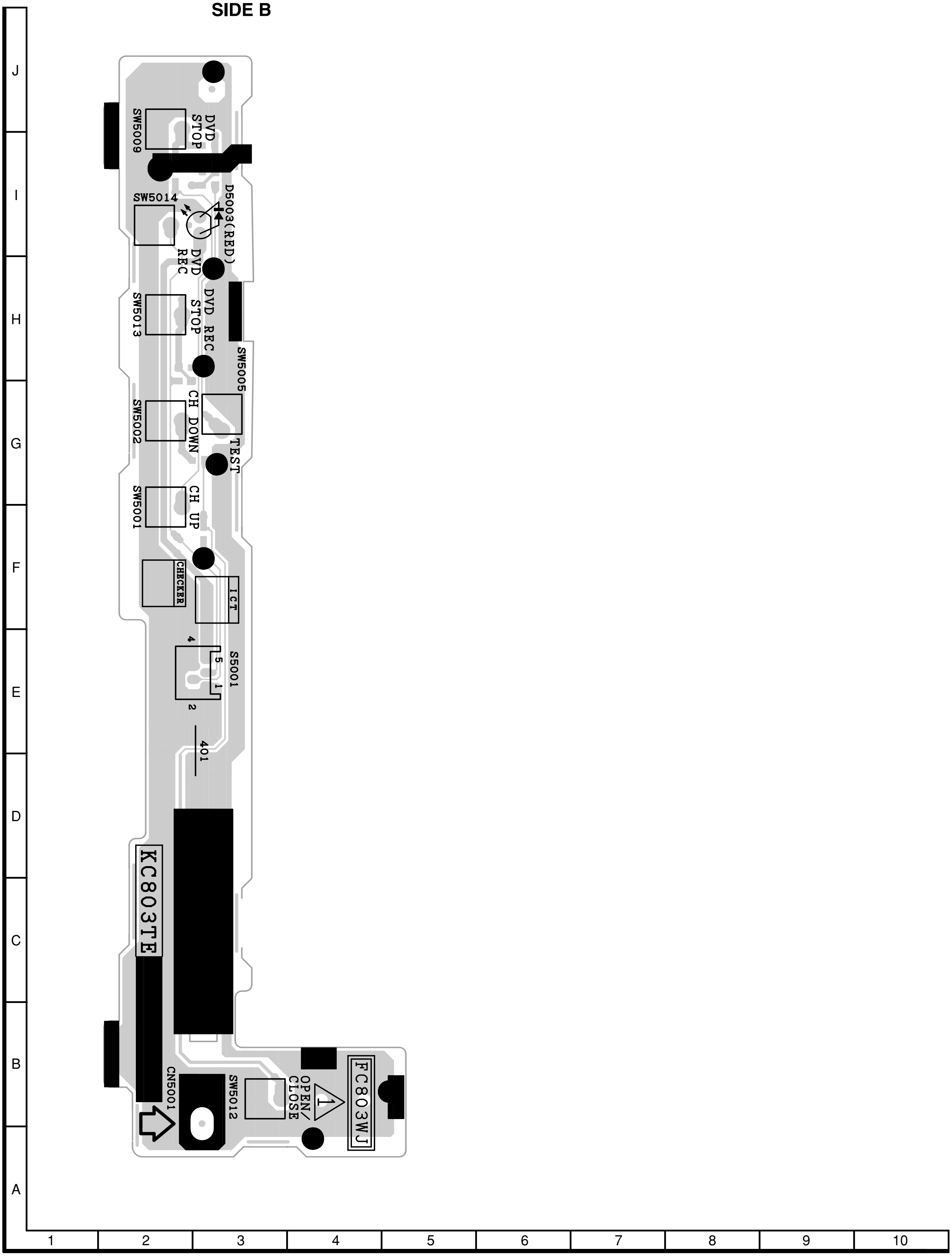
CN5001
SW5012
OPEN/
CLOSE
Sn-Ag-Cu
401
S5001
1
5
2 4
SW5001
R5041
CH UP
R5001
SW5005
TEST
SW5002
CH DOWN
R5042
R5040
SW5013
DVD
REC
STOP
R5002
(RED)
D5003
DVD
REC
SW5014
R5028
R5049
R5032
R5038
SW5009
DVD STOP
R5036

SIDE B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SW5009
DVD STOP
SW5014
D5003(RED)
DVD REC
SW5013
DVD STOP
DVD REC
SW5005
SW5002
CH DOWN
TEST
SW5001
CH UP
CHECKER
ICT
S5001
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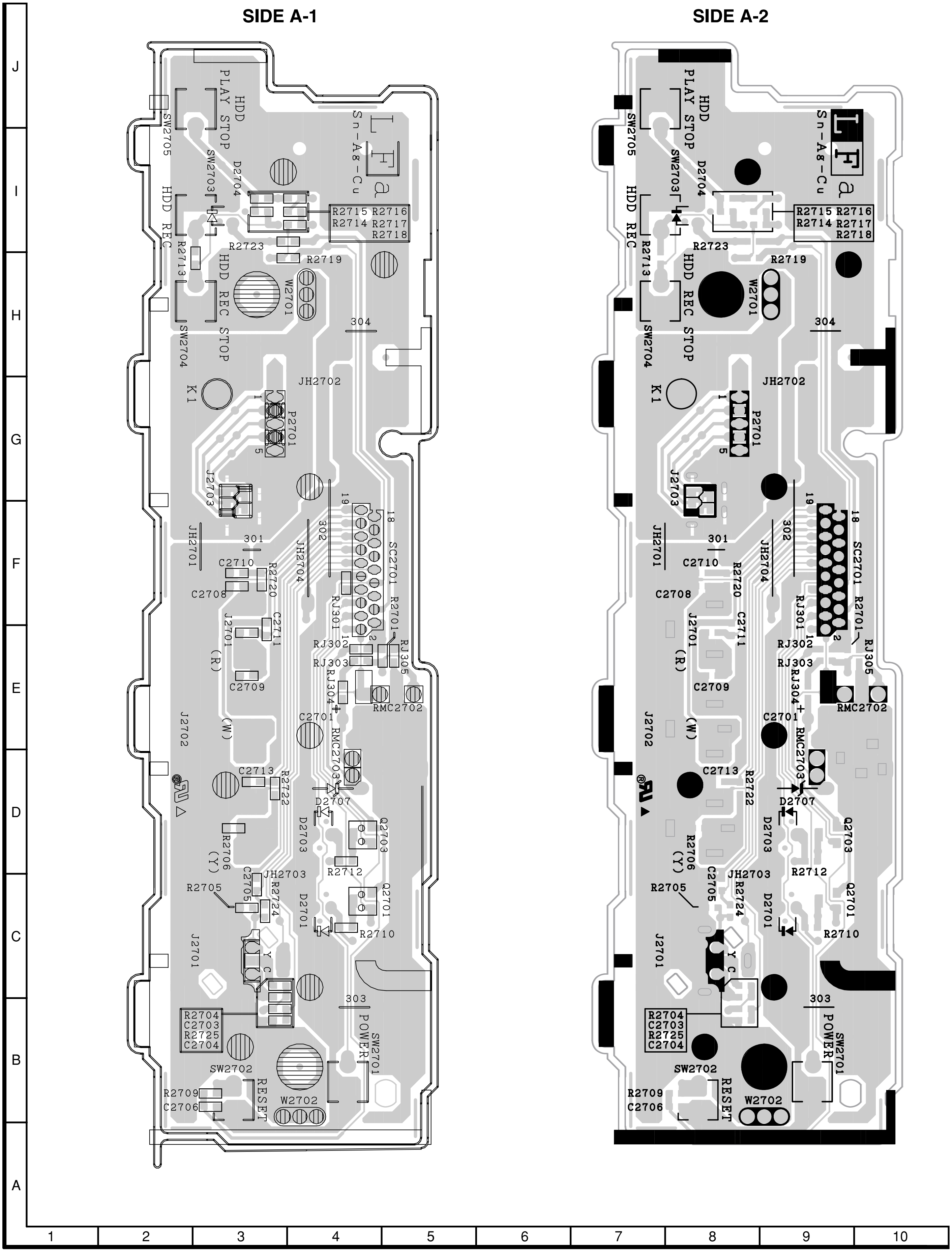
401
KC803TE
CN5001
SW5012
OPEN/CLOSE
1
FC803WJ

OPERATION (L) PWB



SIDE A-1

SIDE A-2

J
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HDD PLAY STOP
SW2705
SW2703
D2704
Sn-Ag-Cu
HDD REC
R2715 R2716
R2714 R2717
R2718
R2723
R2719
R2713
HDD REC STOP
W2701
SW2704
304
JH2702
K1
P2701
1
5
J2703
19
18
302
SC2701
JH2701
301
C2710
R2720
JH2704
C2708
RJ301
R2701
J2701
(R)
C2711
RJ302
RJ303
RJ305
RJ304
C2709
RMC2702
J2702
(W)
C2701
RMC2703
C2713
R2722
D2707
D2703
Q2703
R2706
(Y)
R2712
C2705
JH2703
R2705
R2724
D2701
Q2701
R2710
Y C
303
R2704
C2703
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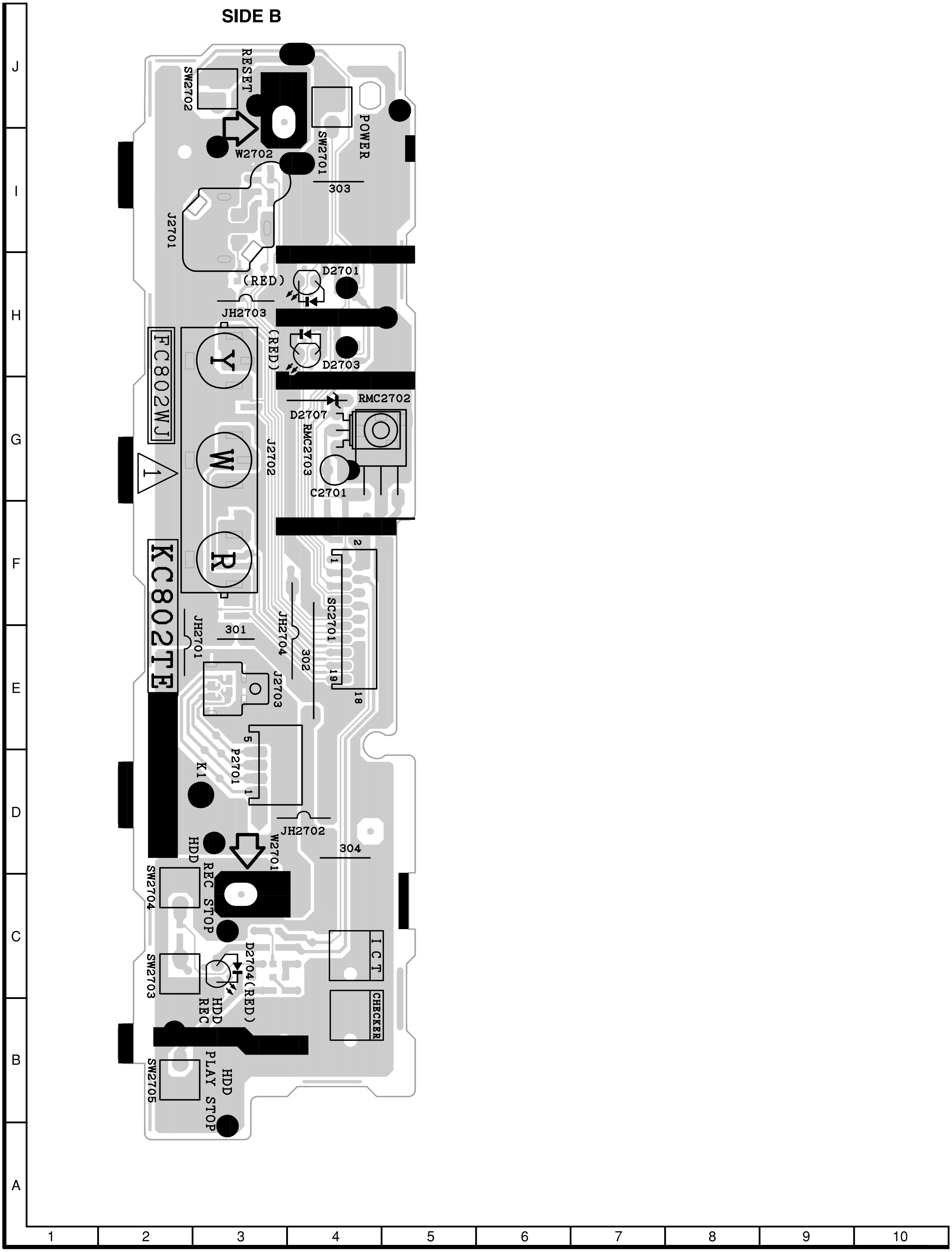
POWER
SW2701
SW2702
RESET
R2709
C2706
W2702

SIDE B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SW2702
RESET
W2702
SW2701
POWER
303
J2701
D2701
(RED)
JH2703
(RED)
D2703
FC802WJ
Y
W
R
J2702
RMC2702
D2707
RMC2703
C2701
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KC802TE
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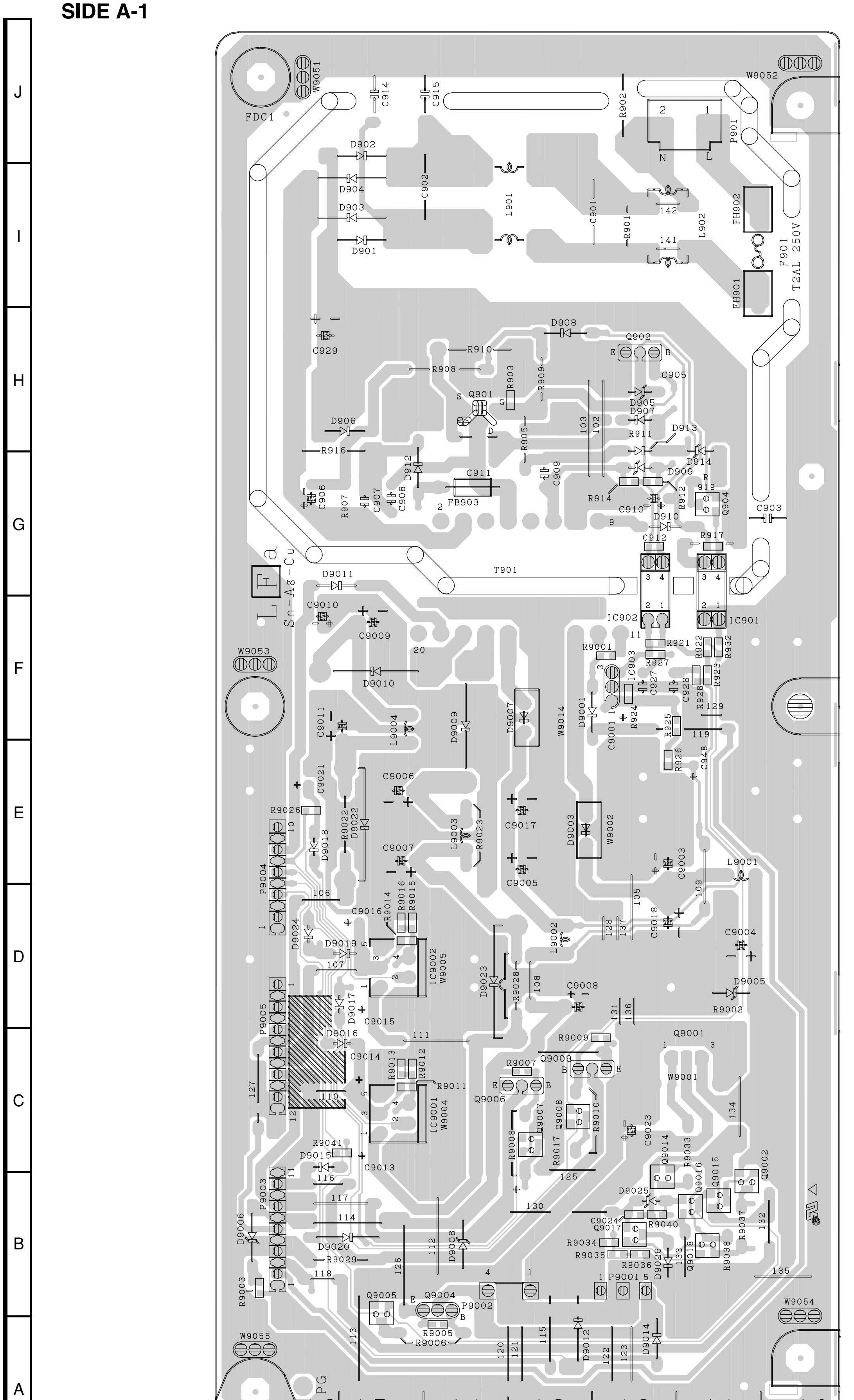
JH2704
302
J2703
5
P2701
1
K1
JH2702
304
HDD
W2701
SW2704
REC STOP
D2704(RED)
SW2703
HDD
REC
I C T
CHECKER
SW2705
HDD
PLAY STOP

POWER PWB

SIDE A-1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FDC1
C914
C915
R902
W9052
P901
N
L
D902
D904
D903
D901
C902
L901
C901
R901
142
141
L902
FH902
FH901
F901
T2AL 250V
C929
D908
Q902
R910
R908
R903
R909
Q901
C905
D905
D907
D906
R905
103
102
R911
D913
R916
D912
C911
C909
D914
D909
R914
R912
919
Q904
C906
R907
C907
C908
FB903
C910
C903
D910
C912
R917
Lead-Free
Sn-Ag-Cu
D9011
T901
C9010
C9009
IC902
IC901
W9053
R9001
R921
R922
R932
IC903
R927
R923
D9010
C927
C928
R928
D9007
D9001
R924
R925
129
C9011
L9004
D9009
W9014
C9001
119
R926
C948
C9021
C9006
R9026
R9022
D9022
D9018
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D9003
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C9007
C9005
C9003
L9001
R9016
R9015
R9014
C9016
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105
109
D9024
L9002
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137
C9018
C9004
D9019
IC9002
W9005
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D9023
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C9008
D9005
R9002
P9005
D9017
C9015
131
136
D9016
111
R9009
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C9014
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R9007
Q9009
R9011
Q9006
W9001
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IC9001
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Q9007
Q9008
R9010
C9023
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R9008
R9017
R9041
D9015
C9013
Q9014
R9033
Q9016
Q9015
Q9002
116
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P9003
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D9025
130
114
C9024
R9040
R9037
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D9006
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D9008
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R9034
R9035
R9036
D9026
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Q9018
R9038
R9029
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R9006
W9055
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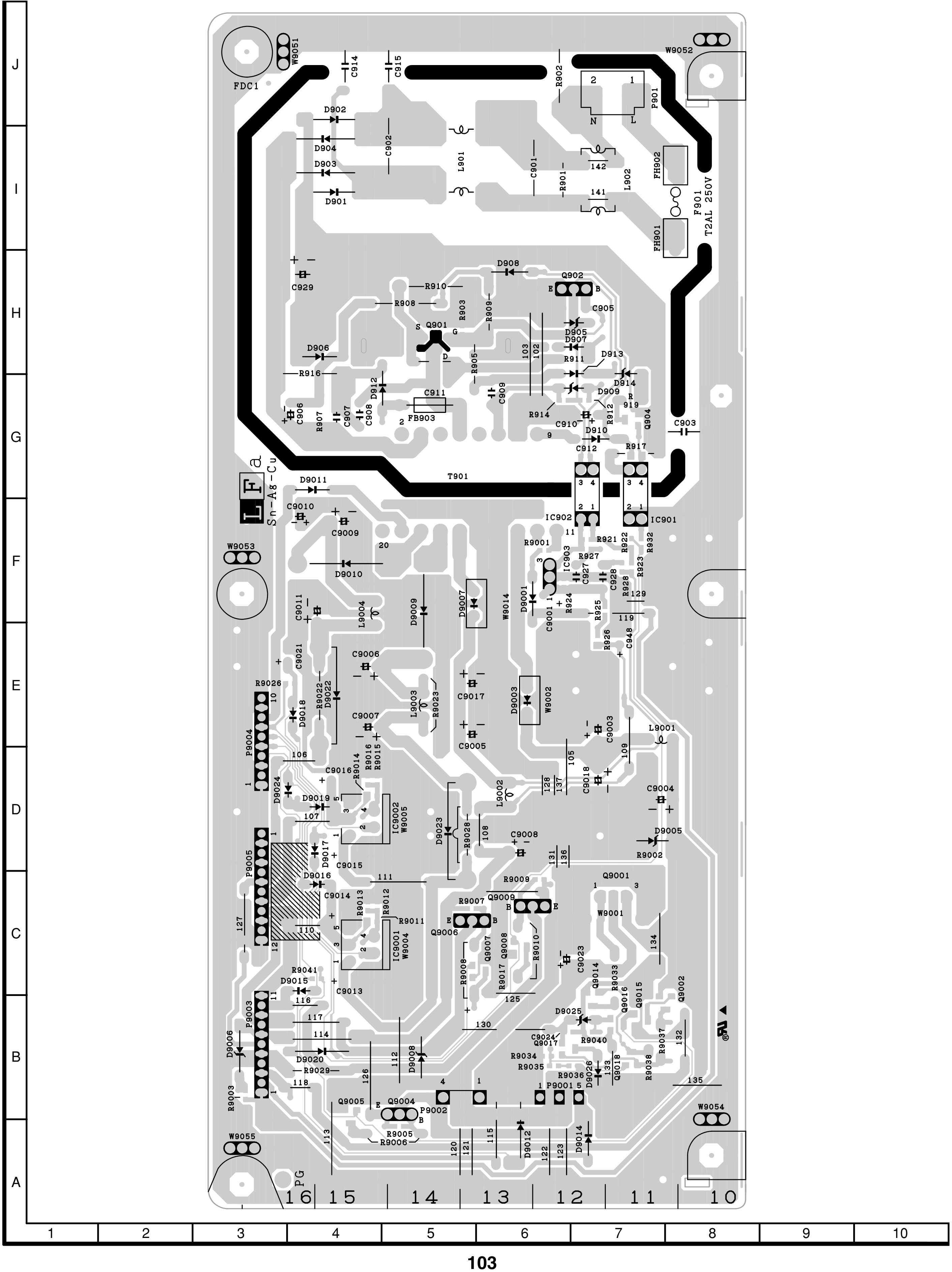
SIDE A-2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L
D902
D904
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L901
C901
R901
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FH901
F901
T2AL 250V
D903
D901
C929
D908
Q902
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B
R910
R908
R903
R909
C905
S
Q901
G
D
D905
D907
D906
R905
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102
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D913
R916
D912
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R914
D909
R
919
C906
R907
C907
C908
FB903
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R912
Q904
C903
9
D910
C912
R917
T901
D9011
L F a
Sn-Ag-Cu
C9010
C9009
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IC902
IC901
3
4
2
1
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R9001
R921
R922
R932
W9053
D9010
R927
IC903
C927
C928
R923
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R924
R928
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C9001
R925
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C9011
L9004
D9009
D9007
W9014
R926
C948
C9021
C9006
C9017
R9026
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R9022
D9022
D9018
L9003
R9023
D9003
W9002
C9007
C9005
C9003
L9001
P9004
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R9014
R9016
R9015
C9016
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109
128
137
C9018
C9004
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D9019
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W9005
L9002
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D9023
108
D9005
R9028
C9008
P9005
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C9015
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R9002
D9016
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R9009
Q9001
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C9014
R9013
R9012
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Q9009
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Q9016
Q9015
Q9002
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116
125
P9003
117
130
D9025
D9006
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C9024
Q9017
R9040
R9037
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D9020
R9034
D9008
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R9035
R9038
Q9018
133
R9029
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R9036
D9026
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P9002
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R9006
W9055
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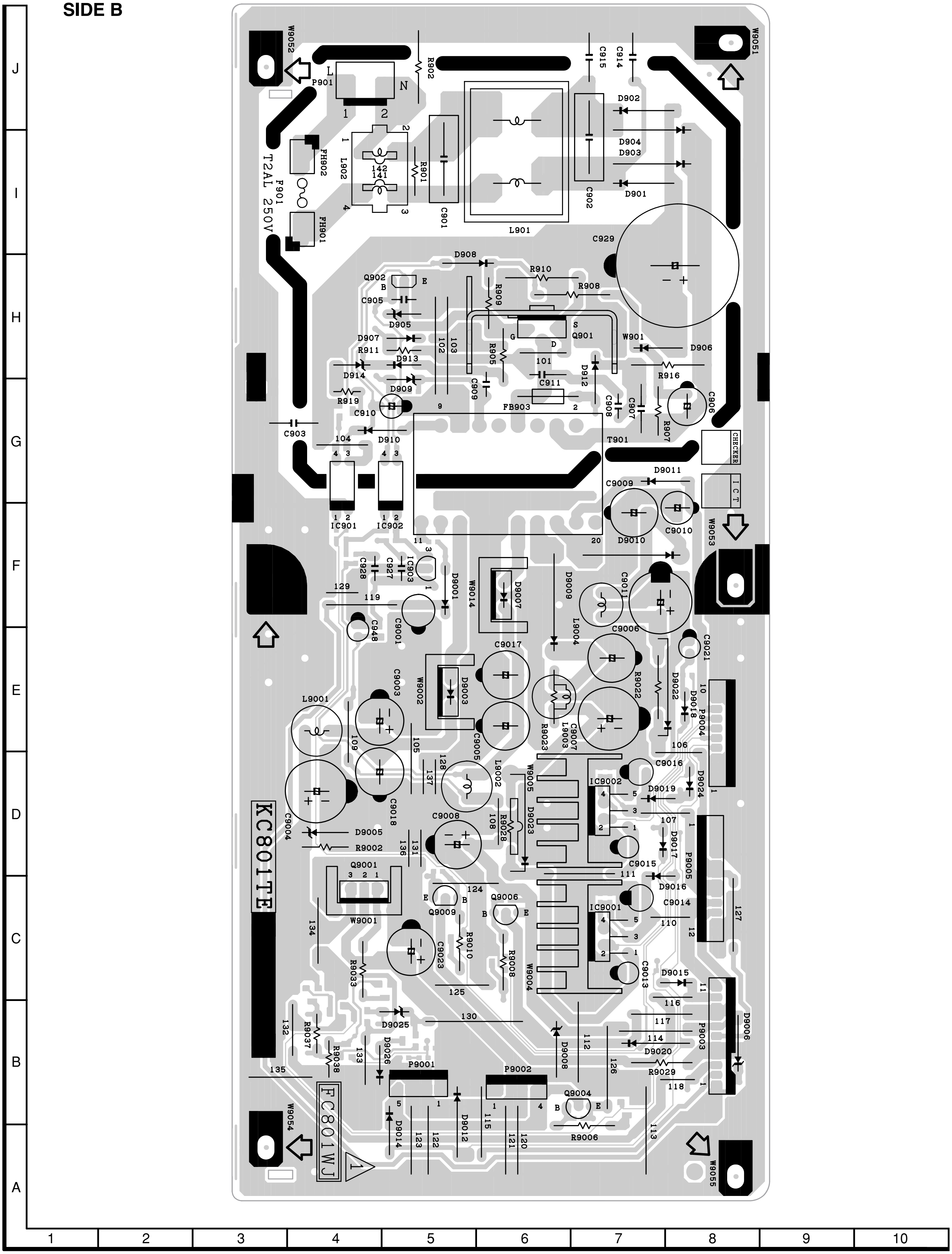
POWER PWB

SIDE B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W9051
P901
L
N
R902
C915
C914
D902
D904
D903
D901
FH902
FH901
F901
T2AL 250V
L902
142
141
R901
C901
C902
L901
C929
D908
R910
R908
Q902
C905
D905
R909
Q901
W901
D906
D907
R911
D913
D914
D909
R919
C910
R905
C909
C911
D912
FB903
R916
C908
C907
R907
C906
C903
D910
T901
CHECKER
ICT
IC901
IC902
D9011
C9009
C9010
D9010
W9053
C928
C927
IC903
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W9014
D9007
D9009
C9011
C948
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C9006
C9021
C9017
C9003
W9002
D9003
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P9004
L9001
C9005
R9023
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C9016
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D9026
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D9020
R9029
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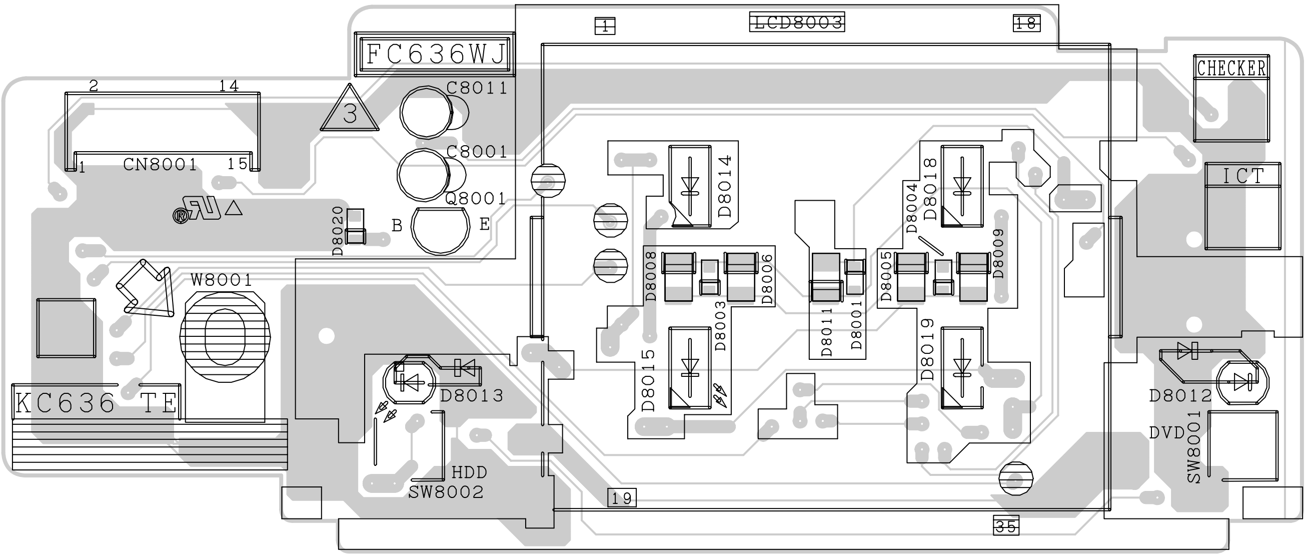
W9055
KC801TE
FC801WJ

LCD PWB

SIDE A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Q8001
B
E
D8020
W8001
KC636 TE
D8013
HDD
SW8002
D8014
D8008
D8006
D8003
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D8004
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D8019
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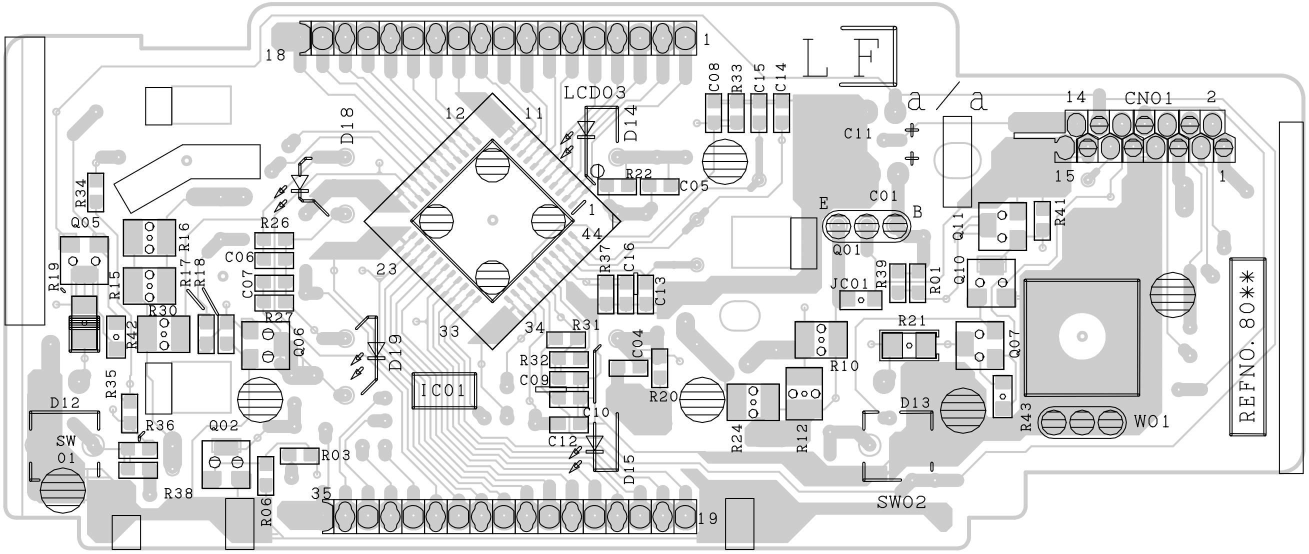
SW8001

SIDE B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a / a
LCD03
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11
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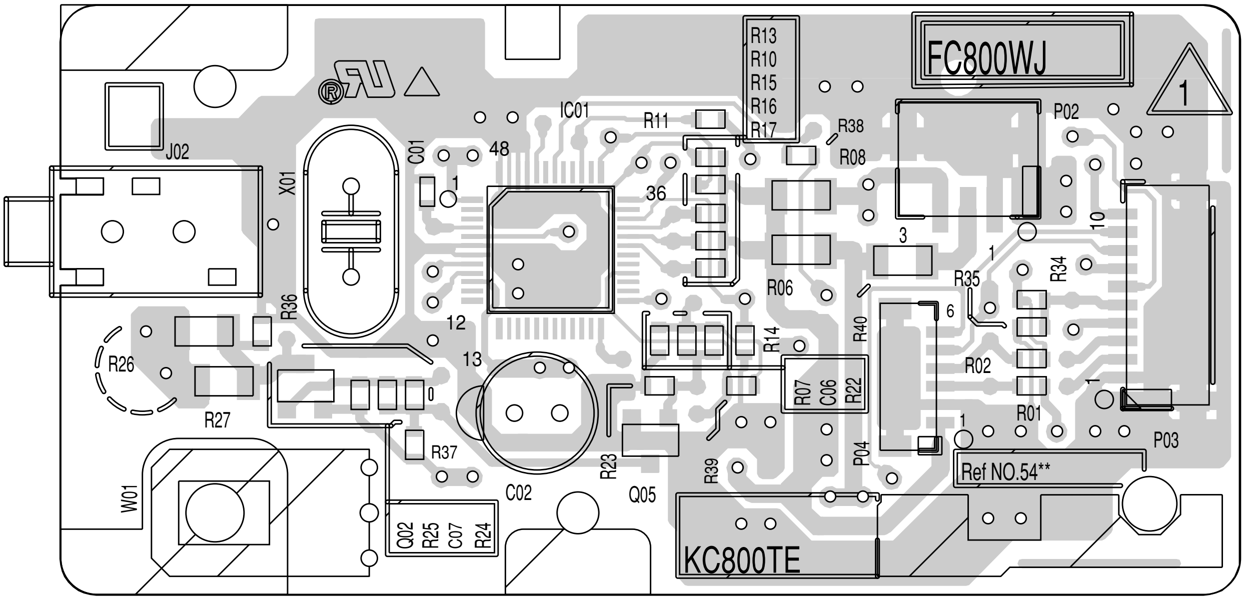
44
23
33
34
D18
D14
D19
D15
IC01
C08
R33
C15
C14
C11
R22
C05
CN01
14
2
15
1
E
C01
B
Q01
Q11
R41
R34
Q05
R16
R26
C06
C07
R17
R18
R19
R15
R30
R42
R27
Q06
R37
C16
C13
R31
R32
C09
C04
C10
C12
R20
JC01
R39
R01
Q10
R21
R10
Q07
D12
R35
R36
SW
01
Q02
R03
R38
R06
R24
R12
D13
SW02
R43
W01
REFNO. 80**

G-LiNK PWB

SIDE A-1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R11
R38
R08
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J02
X01
P02
10
3
1
R35
R34
R06
R36
12
13
R26
R27
R14
R40
6
R02
R07
C06
R22
1
R01
P03
R37
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P04
Ref NO.54**
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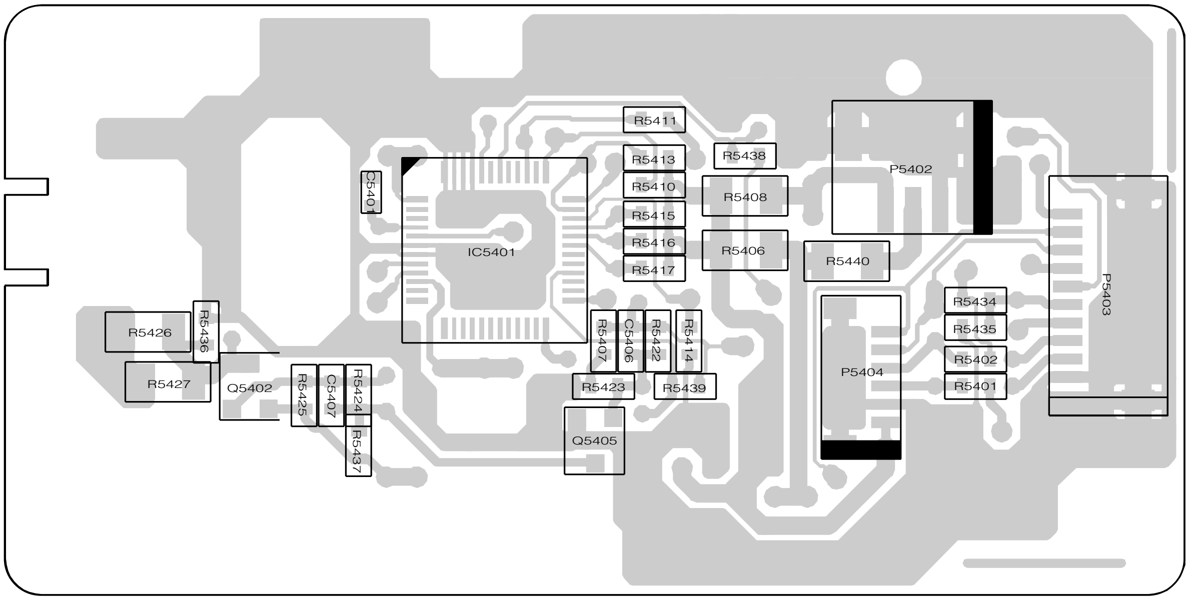
R24
KC800TE

SIDE A-2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R5426
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C5406
R5422
R5414
R5435
R5402
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R5424
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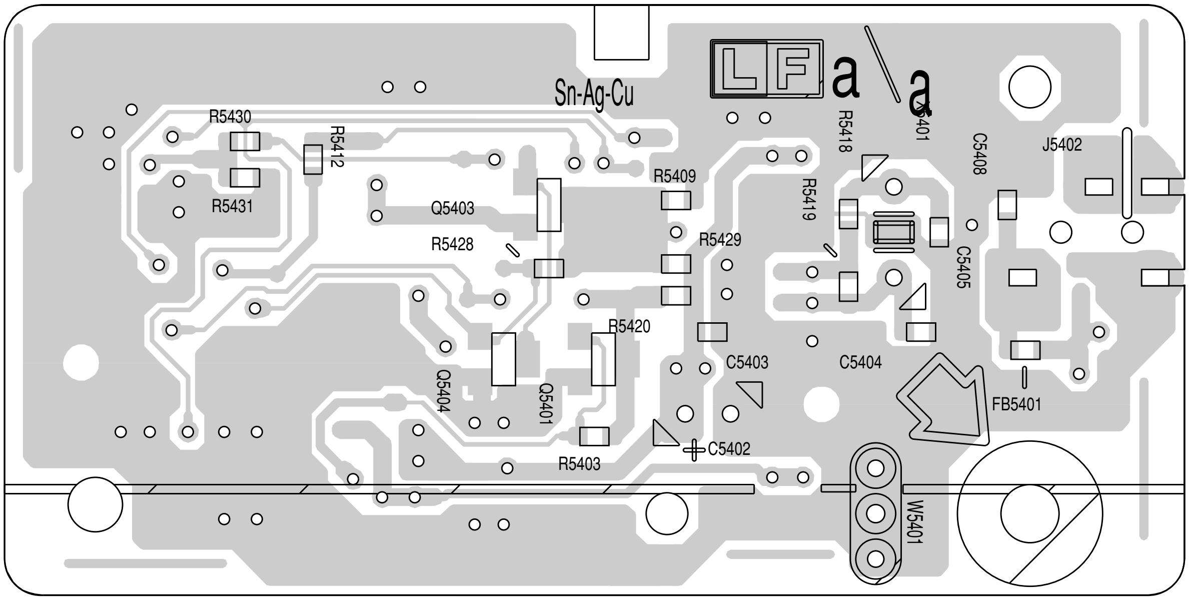
SIDE B-1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R5428
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5401
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R5419
R5429
C5408
J5402
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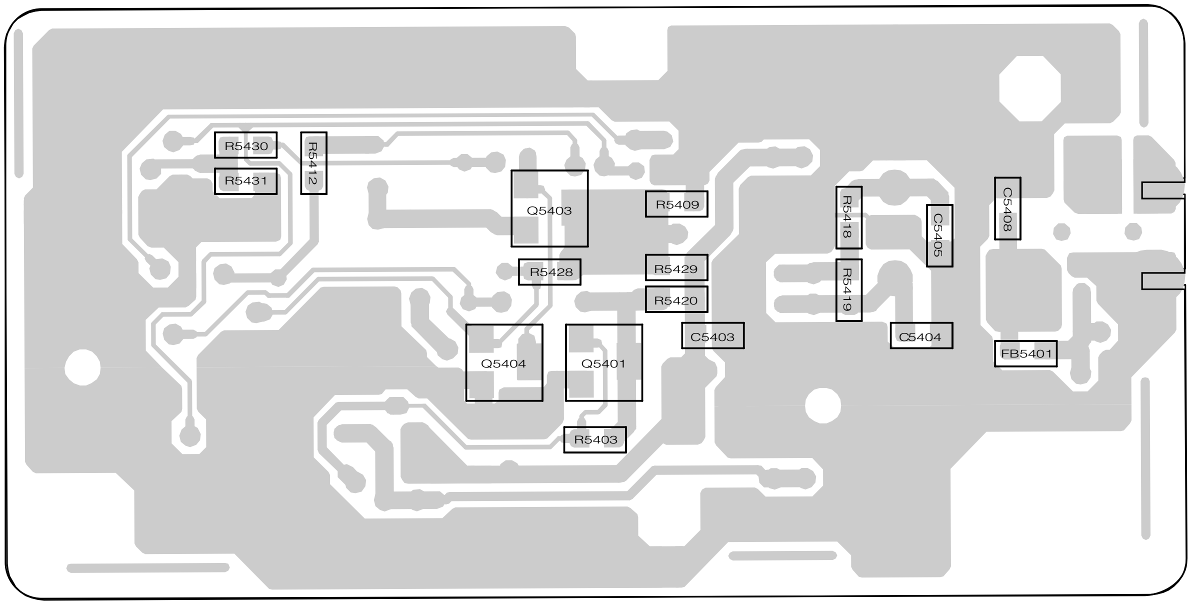
SIDE B-2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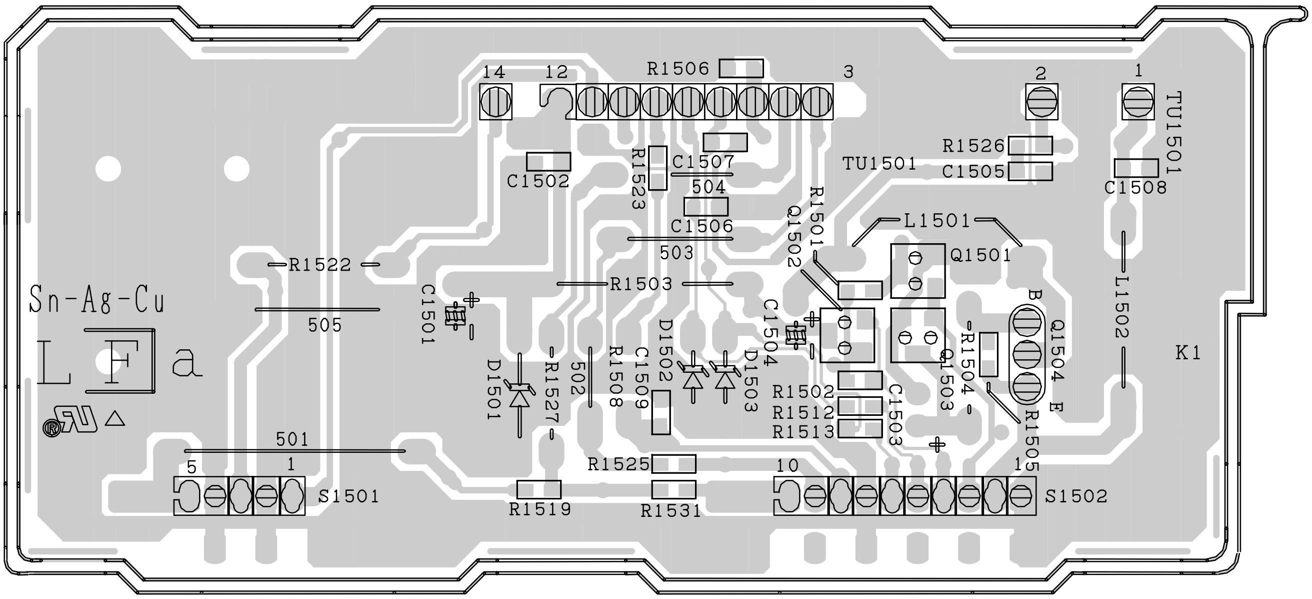
Q5401
R5403

UV TUNER PWB

SIDE A-1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R1526
C1505
C1508
C1507
C1502
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C1506
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503
Q1501
R1522
R1503
L1502
Sn-Ag-Cu
C1501
505
C1504
D1502
D1503
B
Q1504
E
R1504
Q1503
K1
D1501
R1527
502
R1508
C1509
R1502
R1512
R1513
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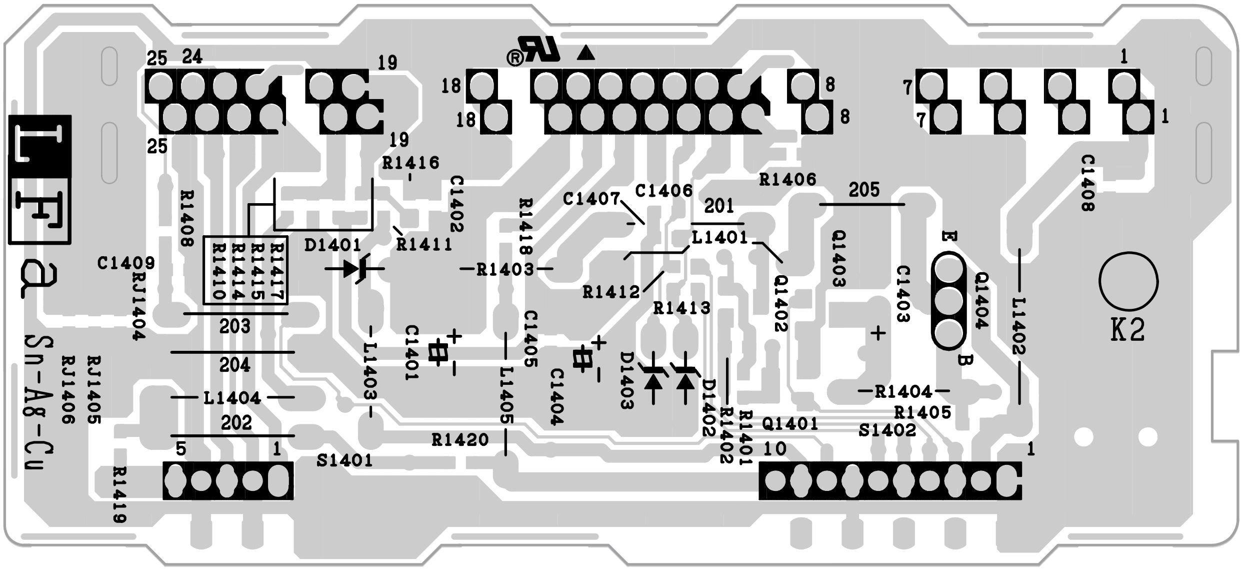
S1502
R1519
R1531

SIDE A-2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201
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R1417
R1415
R1414
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C1409
RJ1404
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K2
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B
RJ1405
RJ1406
L1404
R1404
R1405
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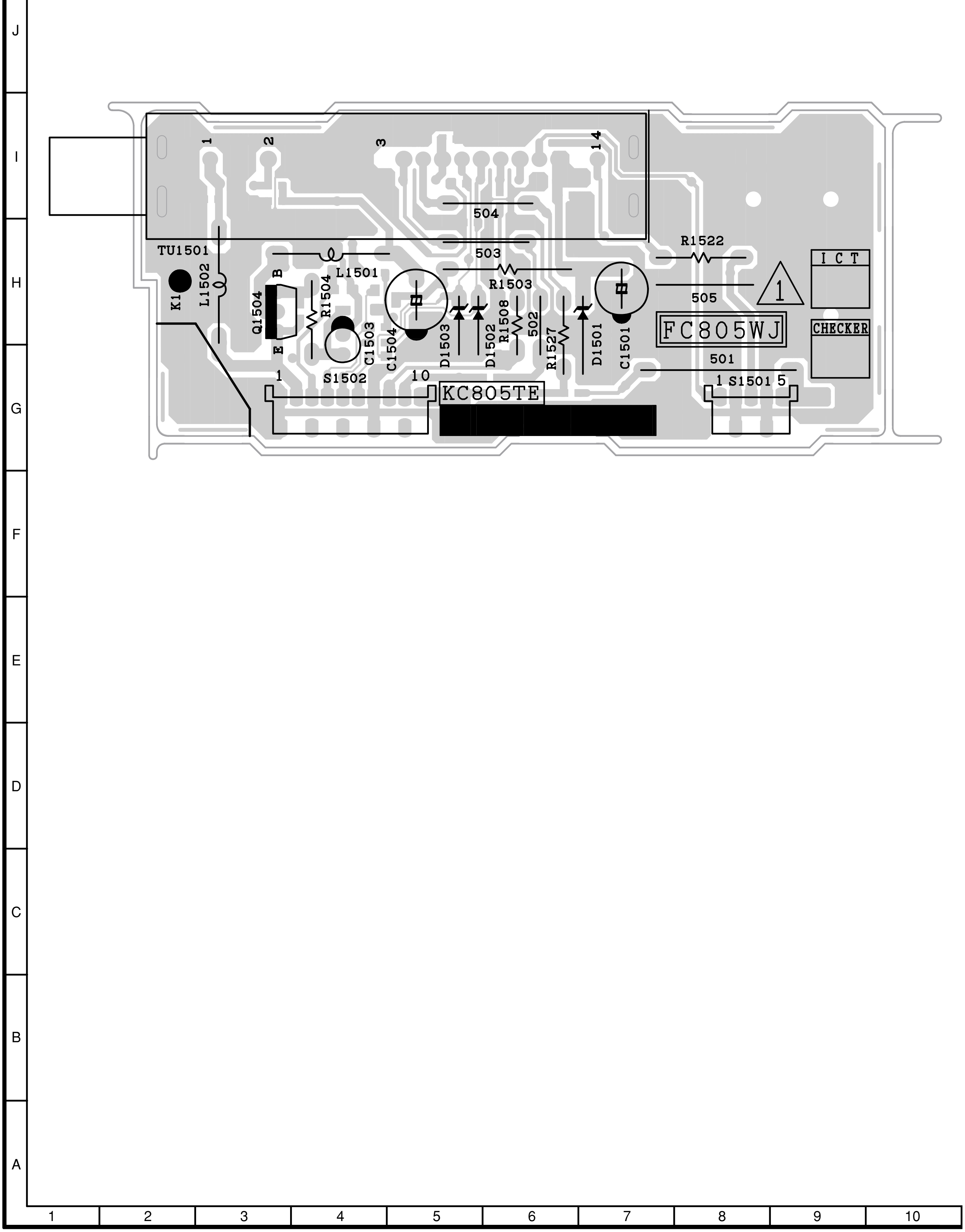
Sn-Ag-Cu

SIDE B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504
503
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L1501
C1503
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D1503
D1502
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R1508
502
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D1501
C1501
KC805TE
R1522
505
FC805WJ
501
1 S1501 5
I C T
CHECKER

11. REPLACEMENT PARTS LIST/ EXPLODED VIEWS

Replacement parts which have these special safety characteristics identified in this manual: electrical components having such features are identified by "⚠" and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER	2. REF. NO.
3. PART NO.	4. DESCRIPTION

★ MARK : SPARE PARTS-DELIVERY SECTION

PRINTED WIRING BOARD ASSEMBLIES
(NOT REPLACEMENT ITEM)

Ref. No.	Part No.	★	Description	Code
	DUNTKC501TE6C	-	Writer Main PWB Unit	—
	DUNTKC636TE6B	-	LCD PWB Unit	—
	DUNTKC799TE6A	-	Sub PWB Unit (DV-HR480S/HR450S)	—
	DUNTKC799TE6B	-	Sub PWB Unit (DV-HR480H/HR450H)	—
	DUNTKC799TE6D	-	Sub PWB Unit (DV-HR400S)	—
	DUNTKC799TE6E	-	Sub PWB Unit (DV-HR400H)	—
	DUNTKC800TE6A	-	G-Link PWB Unit	—
	DUNTKC801TEV1	-	Power PWB Unit	—
	DUNTKC802TEV1	-	Operation (L) PWB Unit (DV-HR480S/HR480H /HR450S/HR450H)	—
	DUNTKC802TEV2	-	Operation (L) PWB Unit (DV-HR400S/HR400H)	—
	DUNTKC803TEV1	-	Operation (R) PWB Unit	—
	DUNTKC805TEV1	-	UV Tuner PWB Unit	—
	DUNTKD053TE6C	-	Main PWB Unit (DV-HR450S)	—
	DUNTKD053TE6D	-	Main PWB Unit (DV-HR480S)	—
	DUNTKD053TE6E	-	Main PWB Unit (DV-HR450H)	—
	DUNTKD053TE6F	-	Main PWB Unit (DV-HR480H)	—
	DUNTKD054TE6B	-	Main PWB Unit (DV-HR400S)	—
	DUNTKD054TE6C	-	Main PWB Unit (DV-HR400H)	—

DUNTKC501TE6C
WRITER MAIN PWB UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC101	VHiBD7905BF-1Y	J	BD7905BF	AR
IC103	VHiTC7PA53U-1Y	J	TC7PA53U	AD
IC104	VHiTA1392FG-1Q	J	TA1392FG	AX
IC105	VHiTC94A51F-1Q	J	TC94A51F	BD
IC106	RH-iXA771WJZZQ	J	iXA771WJ	AN
IC107	VHiBA5962FM-1Y	J	BA5962FM	AH
IC108	VHiLMV932MM-1Y	J	LMV932MM	
IC109	VHiDS90027A-1Y	J	DS90027A	AH
IC110	VHiSN1G66DC-1Y	J	SN1G66DC	AD
IC1001	CH-iXB065WJVB	J	iXB065WJ	
IC1002	VHiPQ070XZ1-1Y	J	PQ070XZ1	AF
IC1003	RH-iXA976WJZZQ	J	iXA976WJ	AZ
IC1005	VHiBR24L08F-1Y	J	BR24L08F	AE
IC1006	VHiPST3630N-1Y	J	PST3630N	AD
IC1007	VHiPQ20WZ11-1Y	J	PQ20WZ11	AF
IC1008	VHiPQ1X261M-1Y	J	PQ1X261M	AE
IC1009	VHiTC7SH08U-1Y	J	TC7SH08U	AF
IC1010	RH-iXA977WJZZY	J	iXA977WJ	AS

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q101	VSDTC143ZE/-1Y	J	DTC143ZE	AB
Q102	VSDTC143ZE/-1Y	J	DTC143ZE	AB
Q103	VSDTC143ZE/-1Y	J	DTC143ZE	AB
Q104	VSDTC143ZE/-1Y	J	DTC143ZE	AB
Q1001	VSRN1902///-1Y	J	RN1902	AC
Q1008	VSDTC143ZE/-1Y	J	DTC143ZE	AB
Q1009	VS2SB1197KQ-1Y	J	2SB1197KQ	AC

DIODES

Ref. No.	Part No.	★	Description	Code
D1001	VHD1SS400++-1Y	J	1SS400	AB
D1004	RH-PX0210TAZZY	J	PhotoDiode	AC
D1007	VHD1SS400++-1Y	J	1SS400	AB

COILS

Ref. No.	Part No.	★	Description	Code
L101	VPCUN1R0MR10NY	J	Peaking 1µH	AB
L103	VPCUN1R0MR10NY	J	Peaking 1µH	AB
L104	VPCUN4R7MR23NY	J	Peaking 4.7µH	AB
X1001	RFiLZA003WJPZY	J	Filter	AD

CAPACITORS

Ref. No.	Part No.	★	Description	Code
C102	VCKYCY1AB224KY	J	0.22 10V Ceramic	AB
C103	VCKYCY1AB224KY	J	0.22 10V Ceramic	AB
C104	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C105	VCKYCY1EB103KY	J	0.01 25V Ceramic	AA
C106	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C107	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C108	VCEAPF0GW476MY	J	47 4.0V Electrolytic	AB
C109	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C110	VCKYCY0JB105KY	J	1 6.3V Ceramic	AC
C111	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C112	VCEAPF0GW476MY	J	47 4.0V Electrolytic	AB
C113	VCCCCY1HH221JY	J	220p 50V Ceramic	AA
C114	VCKYCY0JB105KY	J	1 6.3V Ceramic	AC
C115	VCKYCY1EB103KY	J	0.01 25V Ceramic	AA
C116	VCKYCY1EB103KY	J	0.01 25V Ceramic	AA
C117	VCEAPF0GW476MY	J	47 4.0V Electrolytic	AB
C118	VCKYCY1HB472KY	J	4700p 50V Ceramic	AA
C119	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C120	VCKYCY1HB682KY	J	6800p 50V Ceramic	AA
C121	VCKYCY1HB682KY	J	6800p 50V Ceramic	AA
C122	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C123	VCEAPF0GW476MY	J	47 4.0V Electrolytic	AB
C124	VCKYCY1EB103KY	J	0.01 25V Ceramic	AA
C125	VCKYCY1HB472KY	J	4700p 50V Ceramic	AA
C126	VCKYCY1HB472KY	J	4700p 50V Ceramic	AA
C127	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C128	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C129	VCKYCY1HB222KY	J	2200p 50V Ceramic	AA
C130	VCKYCY1HB392KY	J	3900p 50V Ceramic	AA
C131	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C132	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C133	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C134	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB
C135	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C136	VCAAPD1CJ396MY	J	39 16V Electrolytic	AF
C137	VCKYCY1HB682KY	J	6800p 50V Ceramic	AA
C138	VCKYCY1AB154KY	J	0.15 10V Ceramic	AB
C139	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C140	VCKYCY1EB103KY	J	0.01 25V Ceramic	AA
C141	VCKYCY1EB103KY	J	0.01 25V Ceramic	AA
C142	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C143	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C144	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C146	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C147	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C148	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C149	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C150	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C151	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA

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WRITER MAIN PWB UNIT(Continued)

Ref. No.	Part No.	★	Description	Code
C154	VCKYCY1HB472KY	J	4700p 50V Ceramic	AA
C155	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C156	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C157	VCKYCY1HB472KY	J	4700p 50V Ceramic	AA
C158	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C159	VCKYCY1HB472KY	J	4700p 50V Ceramic	AA
C160	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C161	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C162	VCKYCY1EB103KY	J	0.01 25V Ceramic	AA
C163	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C164	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C165	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C166	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C168	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C169	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C170	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C171	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C172	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C173	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C174	VCCCCY1HH560JY	J	56p 50V Ceramic	AB
C175	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C176	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C177	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C178	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C179	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C180	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C181	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C182	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C183	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C184	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C185	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C186	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C187	VCKYCY1HB471KY	J	470p 50V Ceramic	AA
C188	VCKYCY1EB223KY	J	0.022 25V Ceramic	AA
C190	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C191	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C192	VCKYCY1EB123KY	J	0.012 25V Ceramic	AA
C193	VCKYCY1EB103KY	J	0.01 25V Ceramic	AA
C194	VCEAPF0GW476MY	J	47 4.0V Electrolytic	AB
C195	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C198	VCKYCY1HB472KY	J	4700p 50V Ceramic	AA
C199	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB
C200	VCKYCY1HB472KY	J	4700p 50V Ceramic	AA
C202	VCKYCY1EB103KY	J	0.01 25V Ceramic	AA
C203	VCEAPF0GW476MY	J	47 4.0V Electrolytic	AB
C204	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C206	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C207	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C208	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C209	VCKYCY0JB105KY	J	1 6.3V Ceramic	AC
C210	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C211	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C212	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C214	VCCCCY1HH331JY	J	330p 50V Ceramic	AA
C215	VCKYCY1EB103KY	J	0.01 25V Ceramic	AA
C216	VCKYCY1EB393KY	J	0.039 25V Ceramic	AA
C218	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB
C219	VCKYCY1EB103KY	J	0.01 25V Ceramic	AA
C220	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C221	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB
C222	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C224	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C225	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C226	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C227	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C230	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C231	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C232	VCKYCY1HB222KY	J	2200p 50V Ceramic	AA
C233	VCKYCY1HB222KY	J	2200p 50V Ceramic	AA
C234	VCKYCY1HB222KY	J	2200p 50V Ceramic	AA
C235	VCKYCY1HB222KY	J	2200p 50V Ceramic	AA
C236	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C237	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C238	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB
C239	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB
C240	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB
C241	VCKYCY0JB105KY	J	1 6.3V Ceramic	AC
C242	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB
C243	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C244	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C245	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C246	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C248	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C249	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C250	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C1001	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1002	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1003	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1004	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1005	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1006	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1007	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1008	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1009	VCEAPF0GW107MY	J	100 4.0V Electrolytic	AC
C1010	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1011	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1012	VCEAPF0GW107MY	J	100 4.0V Electrolytic	AC
C1013	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C1014	VCKYCY1AB154KY	J	0.15 10V Ceramic	AB
C1016	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB
C1017	VCEAPF0GW476MY	J	47 4.0V Electrolytic	AB
C1018	VCKYCY1CF334ZY	J	0.33 16V Ceramic	AB
C1019	VCKYCY1CF334ZY	J	0.33 16V Ceramic	AB
C1021	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1022	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1023	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1025	VCEAPF0JW227MY	J	220 6.3V Electrolytic	AD
C1026	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB
C1027	VCEAPF0GW107MY	J	100 4.0V Electrolytic	AC
C1028	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1029	VCKYCY1CF334ZY	J	0.33 16V Ceramic	AB
C1030	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB
C1031	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB
C1032	VCKYCY1EB103KY	J	0.01 25V Ceramic	AA
C1033	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1038	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C1040	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1043	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1044	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA

RESISTORS

Ref. No.	Part No.	★	Description	Code
R101	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R103	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R106	VRS-CY1JF680JY	J	68 1/16W Metal Oxide	AA
R107	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R108	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R109	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R110	VRS-CY1JF181JY	J	180 1/16W Metal Oxide	AA
R111	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R112	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R115	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R118	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R119	VRS-CY1JF271JY	J	270 1/16W Metal Oxide	AA
R120	VRS-CY1JF122JY	J	1.2k 1/16W Metal Oxide	AA
R121	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R122	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R123	VRS-CY1JF105JY	J	1M 1/16W Metal Oxide	AA
R124	VRS-CY1JF393JY	J	39k 1/16W Metal Oxide	AA
R125	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R126	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R128	VRS-CY1JF152JY	J	1.5k 1/16W Metal Oxide	AA
R129	VRS-CY1JF152JY	J	1.5k 1/16W Metal Oxide	AA
R130	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R131	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R132	VRS-CY1JF272JY	J	2.7k 1/16W Metal Oxide	AA
R133	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R134	VRS-CY1JF123JY	J	12k 1/16W Metal Oxide	AA
R135	VRS-CY1JF333FY	J	33k 1/16W Metal Oxide	AA
R136	VRS-CY1JF154JY	J	150k 1/16W Metal Oxide	AA
R137	VRS-CY1JF473FY	J	47k 1/16W Metal Oxide	AA

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WRITER MAIN PWB UNIT(Continued)

Ref. No.	Part No.	★	Description	Code
R138	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R139	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R140	VRS-CY1JF471JY	J	470 1/16W Metal Oxide	AA
R141	VRS-CY1JF562JY	J	5.6k 1/16W Metal Oxide	AA
R142	VRS-CY1JF123JY	J	12k 1/16W Metal Oxide	AA
R145	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R146	VRS-CY1JF393JY	J	39k 1/16W Metal Oxide	AA
R147	VRS-CY1JF393JY	J	39k 1/16W Metal Oxide	AA
R149	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R150	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R151	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R152	VRS-CY1JF153JY	J	15k 1/16W Metal Oxide	AA
R155	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R158	VRS-CY1JF564JY	J	560k 1/16W Metal Oxide	AA
R180	VRS-CY1JF220JY	J	22 1/16W Metal Oxide	AA
R181	VRS-CY1JF471JY	J	470 1/16W Metal Oxide	AA
R187	VRS-TW2HPR30JY	J	0.3 1/2W Metal Oxide	AB
R188	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R189	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R192	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R193	VRS-CY1JF151JY	J	150 1/16W Metal Oxide	AA
R194	VRS-CY1JF151JY	J	150 1/16W Metal Oxide	AA
R195	VRS-CY1JF151JY	J	150 1/16W Metal Oxide	AA
R196	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R197	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R198	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R200	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R201	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R204	VRS-TW2ED000JY	J	0 1/4W Metal Oxide	AB
R205	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R207	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R208	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R209	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R210	VRS-CY1JF331JY	J	330 1/16W Metal Oxide	AA
R211	VRS-CY1JF331JY	J	330 1/16W Metal Oxide	AA
R212	VRS-CY1JF471JY	J	470 1/16W Metal Oxide	AA
R213	VRS-CY1JF562JY	J	5.6k 1/16W Metal Oxide	AA
R214	VRS-CY1JF562JY	J	5.6k 1/16W Metal Oxide	AA
R215	VRS-CY1JF151JY	J	150 1/16W Metal Oxide	AA
R216	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R217	VRS-CY1JF103FY	J	10k 1/16W Metal Oxide	AA
R218	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R219	VRS-CY1JF475JY	J	4.7M 1/16W Metal Oxide	AA
R221	VRS-CY1JF103FY	J	10k 1/16W Metal Oxide	AA
R222	VRS-CY1JF475JY	J	4.7M 1/16W Metal Oxide	AA
R223	VRS-CY1JF220JY	J	22 1/16W Metal Oxide	AA
R225	VRS-CY1JF220JY	J	22 1/16W Metal Oxide	AA
R226	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R227	VRS-CY1JF683JY	J	68k 1/16W Metal Oxide	AA
R228	VRS-CY1JF334JY	J	330k 1/16W Metal Oxide	AA
R229	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R230	VRS-CY1JF153FY	J	15k 1/16W Metal Oxide	AA
R231	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R232	VRS-TW2ED1R5JY	J	1.5 1/4W Metal Oxide	AB
R233	VRS-TW2ED1R5JY	J	1.5 1/4W Metal Oxide	AB
R234	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R244	VRS-TW2ED000JY	J	0 1/4W Metal Oxide	AB
R245	VRS-CY1JF220JY	J	22 1/16W Metal Oxide	AA
R246	VRS-CY1JF220JY	J	22 1/16W Metal Oxide	AA
R247	VRS-TW2HPR30JY	J	0.3 1/2W Metal Oxide	AB
R248	VRS-CY1JF220JY	J	22 1/16W Metal Oxide	AA
R253	VRS-CY1JF152JY	J	1.5k 1/16W Metal Oxide	AA
R254	VRS-CY1JF152JY	J	1.5k 1/16W Metal Oxide	AA
R266	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R267	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R270	VRS-CY1JF393JY	J	39k 1/16W Metal Oxide	AA
R271	VRS-CY1JF123JY	J	12k 1/16W Metal Oxide	AA
R283	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R284	VRS-CY1JF332FY	J	3.3k 1/16W Metal Oxide	AA
R285	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R286	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R290	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R292	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R293	VRS-CY1JF123JY	J	12k 1/16W Metal Oxide	AA
R295	VRS-CY1JF105JY	J	1M 1/16W Metal Oxide	AA
R299	VRS-CY1JF393JY	J	39k 1/16W Metal Oxide	AA
R301	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R354	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1001	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1002	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1003	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1004	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1005	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1006	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1007	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1008	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1009	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1010	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1011	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1012	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R1014	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1015	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1016	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1017	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1018	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R1019	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1022	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R1023	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1024	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1025	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1026	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1027	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1028	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1032	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1033	VRS-CY1JF221JY	J	220 1/16W Metal Oxide	AA
R1034	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1035	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1036	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R1039	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R1041	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R1042	VRS-TW2ED000JY	J	0 1/4W Metal Oxide	AB
R1043	VRS-CY1JF222FY	J	2.2k 1/16W Metal Oxide	AA
R1045	VRS-CY1JF681FY	J	680 1/16W Metal Oxide	AA
R1046	VRS-CY1JF182FY	J	1.8k 1/16W Metal Oxide	AA
R1050	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R1051	VRS-CY1JF561FY	J	560 1/16W Metal Oxide	AA
R1052	VRS-CY1JF561FY	J	560 1/16W Metal Oxide	AA
R1053	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1054	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1055	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R1057	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1058	VRS-CY1JF221JY	J	220 1/16W Metal Oxide	AA
R1059	VRS-CY1JF102FY	J	1k 1/16W Metal Oxide	AA
R1060	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1061	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1066	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1067	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R1068	VRS-CY1JF820JY	J	82 1/16W Metal Oxide	AA
R1071	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R1072	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R1074	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R1075	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1076	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1077	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1078	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1079	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1080	VRS-CY1JF154JY	J	150k 1/16W Metal Oxide	AA
R1081	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1082	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1083	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1084	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1085	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1086	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1087	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1088	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1089	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1090	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1091	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1092	VRS-CY1JF330JY	J	33 1/16W Metal Oxide	AA
R1093	VRS-CY1JF330JY	J	33 1/16W Metal Oxide	AA
R1094	VRS-CY1JF330JY	J	33 1/16W Metal Oxide	AA

DUNTKC501TE6C
WRITER MAIN PWB UNIT(Continued)

Ref. No.	Part No.	★	Description	Code
R1095	VRS-CY1JF330JY	J	33 1/16W Metal Oxide	AA
R1096	VRS-CY1JF330JY	J	33 1/16W Metal Oxide	AA
R1097	VRS-CY1JF330JY	J	33 1/16W Metal Oxide	AA
R1098	VRS-CY1JF330JY	J	33 1/16W Metal Oxide	AA
R1099	VRS-CY1JF330JY	J	33 1/16W Metal Oxide	AA
R1100	VRS-CY1JF330JY	J	33 1/16W Metal Oxide	AA
R1101	VRS-CY1JF330JY	J	33 1/16W Metal Oxide	AA
R1102	VRS-CY1JF330JY	J	33 1/16W Metal Oxide	AA
R1103	VRS-CY1JF330JY	J	33 1/16W Metal Oxide	AA
R1104	VRS-CY1JF330JY	J	33 1/16W Metal Oxide	AA
R1105	VRS-CY1JF330JY	J	33 1/16W Metal Oxide	AA
R1106	VRS-CY1JF330JY	J	33 1/16W Metal Oxide	AA
R1107	VRS-CY1JF330JY	J	33 1/16W Metal Oxide	AA
R1108	VRS-CY1JF220JY	J	22 1/16W Metal Oxide	AA
R1109	VRS-CY1JF820JY	J	82 1/16W Metal Oxide	AA
R1110	VRS-CY1JF820JY	J	82 1/16W Metal Oxide	AA
R1111	VRS-CY1JF220JY	J	22 1/16W Metal Oxide	AA
R1112	VRS-CY1JF220JY	J	22 1/16W Metal Oxide	AA
R1113	VRS-CY1JF820JY	J	82 1/16W Metal Oxide	AA
R1114	VRS-CY1JF820JY	J	82 1/16W Metal Oxide	AA
R1115	VRS-CY1JF820JY	J	82 1/16W Metal Oxide	AA
R1116	VRS-CY1JF820JY	J	82 1/16W Metal Oxide	AA
R1117	VRS-CY1JF820JY	J	82 1/16W Metal Oxide	AA
R1118	VRS-CY1JF820JY	J	82 1/16W Metal Oxide	AA
R1123	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1124	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1125	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R1126	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1127	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1128	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R1129	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1130	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1132	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R1133	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1134	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1135	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1137	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1139	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1140	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1141	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1142	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R1143	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R9803	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R9804	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
CN101	QSOCNA402WJZZY	J	Socket	AH
CN102	QSOCN0436TAZZY	J	Socket, 4Pin	AC
CN103	QSOCN0538TAZZY	J	Socket, 5Pin	AD
CN104	QSOCN1336TAZZY	J	Socket, 13Pin	AD
CN501	QSOCNA180WJZZ	J	Socket	AC
CN1002	QPLGN0178FJZZY	J	Plug, 6Pin	AD
CN9802	QPLGN0664TAZZY	J	Plug, 7Pin	AD
CN9803	QSOCN4072TAZZY	J	Socket, 40Pin	AF
FB1001	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB1002	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
SW501	QSW-BA001WJZZ	J	Switch	AD
X101	RCRMCA017WJZZY	J	Ceramic Vibrator	AF

DUNTKC636TE6B
LCD PWB UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC8001	VHiPT6596++-1Q	J	PT6596	AM

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q8001	VS2SD468-C/-1+	J	2SD468-C	AD
Q8002	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q8010	VSRT1N241C/-1Y	J	RT1N241C	AB
Q8011	VSRT1P141C/-1Y	J	RT1P141C	AB

DIODES

Ref. No.	Part No.	★	Description	Code
D8003	RH-EX1398CEZZY	J	Zener Diode, EX1398CE	AB
D8004	RH-EX1398CEZZY	J	Zener Diode, EX1398CE	AB
D8005	RH-PXA051WJZZY	J	PhotoDiode	AN
D8006	RH-PXA051WJZZY	J	PhotoDiode	AN
D8012	RH-PX0297GEZZ+	J	PhotoDiode	AD
D8013	RH-PX0297GEZZ+	J	PhotoDiode	AD
D8020	RH-EX1400CEZZY	J	Zener Diode, EX1400CE	AB

CAPACITORS

Ref. No.	Part No.	★	Description	Code
C8001	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C8008	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C8009	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C8010	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C8011	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C8012	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C8013	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C8014	VCCCCY1HH100DY	J	10p 50V Ceramic	AA
C8015	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C8016	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA

RESISTORS

Ref. No.	Part No.	★	Description	Code
R8003	VRS-CY1JF822JY	J	8.2k 1/16W Metal Oxide	AA
R8006	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R8012	VRS-TW2ED271JY	J	270 1/4W Metal Oxide	AB
R8017	VRS-CY1JF822JY	J	8.2k 1/16W Metal Oxide	AA
R8018	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R8019	VRS-TQ2BD181JY	J	180 1/8W Metal Oxide	AA
R8021	VRS-TQ2BD181JY	J	180 1/8W Metal Oxide	AA
R8026	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R8031	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R8032	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R8033	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R8034	VRS-CY1JF272JY	J	2.7k 1/16W Metal Oxide	AA
R8035	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R8036	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R8037	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R8038	VRS-CY1JF822JY	J	8.2k 1/16W Metal Oxide	AA
R8039	VRS-CY1JF122JY	J	1.2k 1/16W Metal Oxide	AA
R8041	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R8042	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R8043	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
CN8001	QSOCN0612FJZZ	J	Socket, 15Pin	AD
LCD8003	RLCDDA034WJPZ	J	LCD Display	
	LHLDZA396WJZZ	J	Holder	AF
SW8001	QSW-K0003AJZZ+	J	Switch, (DVD PLAY)	AB
SW8002	QSW-K0003AJZZ+	J	Switch, (HDD PLAY)	AB
	PSHEPA133WJZZ	J	Sheet	AC

DUNTKC799TE6A (DV-HR480S/HR450S)
DUNTKC799TE6B (DV-HR480H/HR450H)
DUNTKC799TE6D (DV-HR400S)
DUNTKC799TE6E (DV-HR400H)
SUB PWB UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC501	RH-iXB338WJN1Q	J	iXB338WJN	
IC502	VHiPST3224N1EY	J	PST3224N1	
IC503	VHiBR24L16F-1Y	J	BR24L16F	AF
IC505	VHiPST3225N1EY	J	PST3225N1	AD
IC508	VHiTVHC74T/-1Y	J	VHC74T	AF
IC1701	VHiMSP3417G-1Q	J	MSP3417G	AY
IC1801	VHiLC74793J1EY	J	LC74793J	AV
IC2201	VHiLV4053AT-1Y	J	LV4053AT	AE
IC2202	VHiMM1510XN-1Y	J	MM1510XN	AE
IC2501	VHiMM1623XF-1Y	J	MM1623XF	AM
IC2502	VHiMM1566AJ-1Y	J	MM1566AJ	AG
IC2503	VHiNJM2584M-1Y	J	NJM2584M	AG
IC2601	VHiLA73026V-1Y	J	LA73026V	AN
IC2681	VHiMM1505XN-1Y	J	MM1505XN	AE
IC2682	VHiMM1507XN-1Y	J	MM1507XN	AD
IC2691	VHiPQ20WZ11-1Y	J	PQ20WZ11	AF

DUNTKC799TE6A (DV-HR480S/HR450S)
DUNTKC799TE6B (DV-HR480H/HR450H)
DUNTKC799TE6D (DV-HR400S)
DUNTKC799TE6E (DV-HR400H)
SUB PWB UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
IC6102	VHiNJM4565M-1Y	J	NJM4565M	AE
IC6501	VHiNJM4565M-1Y	J	NJM4565M	AE

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q501	VSRT1P141C/-1Y	J	KRA102S	AB
Q502	VSRT1P141C/-1Y	J	KRA102S	AB
Q511	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q512	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q513	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q557	VS2SD468-C/-1+	J	2SD468-C	AD
Q564	VSRT1P141C/-1Y	J	KRA102S	AB
Q565	VSRT1P141C/-1Y	J	KRA102S	AB
Q742	VSRT1N141C/-1Y	J	KRC102S	AB
Q743	VS2PD601AR/-1Y	J	2PD601AR	AB
Q744	VS2PD601AR/-1Y	J	2PD601AR	AB
Q1701	VS2PB709AR/-1Y	J	2PB709AR	AB
Q1702	VSRT1N441C/-1Y	J	KRC104S	AB
Q1801	VS2SB1117KU1E+	J	2SB1117KU1E	AE
Q1802	VSRT1N141C/-1Y	J	KRC102S	AB
Q2201	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q2202	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q2203	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q2204	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q2205	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q2206	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q2207	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q2208	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q2209	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q2211	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q2302	VSRT1N441C/-1Y	J	KRA104S	AB
Q2316	VS2PD601AR/-1Y	J	2PD601AR	AB
Q2317	VSRT1N441C/-1Y	J	KRC104S	AB
Q2503	VSRT1N241C/-1Y	J	KRC103S	AB
Q2511	VSRT1N241C/-1Y	J	KRC103S	AB
Q2512	VSRT1N241C/-1Y	J	KRC103S	AB
Q2513	VSRT1N241C/-1Y	J	KRC103S	AB
Q2514	VSRT1N241C/-1Y	J	KRC103S	AB
Q2516	VSRT1N241C/-1Y	J	KRC103S	AB
Q2601	VSRT1N141C/-1Y	J	KRC102S	AB
Q2602	VS2PB709AR/-1Y	J	2PB709AR	AB
Q2901	VS2PB709AR/-1Y	J	2PB709AR	AB
Q6501	VSRT1N441C/-1Y	J	KRC104S	AB
Q6502	VSRT1N441C/-1Y	J	KRC104S	AB
Q6505	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q6506	VSRT1N441C/-1Y	J	KRC104S	AB
Q6507	VSRT1P241C/-1Y	J	KRA103S	AB
Q6508	VSRT1N441C/-1Y	J	KRC104S	AB
Q6509	VSRT1P241C/-1Y	J	KRA103S	AB
Q6510	VS2SD1306-E-1Y	J	2SD1306-E	AC
Q6511	VS2SD1306-E-1Y	J	2SD1306-E	AC
Q6512	VSRT1N241C/-1Y	J	KRC103S	AB
Q6513	VS2SB1132Q/-1Y	J	2SB1132Q	AC
Q6514	VSRT1P441C/-1Y	J	KRA104S	AB
Q6515	VSRT1N241C/-1Y	J	KRC103S	AB
Q6601	VS2SC3052EF-1Y	J	2SC3052EF	AC

DIODES

Ref. No.	Part No.	★	Description	Code
D501	VHD1SS400++-1Y	J	1SS400	AB
D502	VHD1SS400++-1Y	J	1SS400	AB
D503	VHD1SS400++-1Y	J	1SS400	AB
D515	VHD1SS400++-1Y	J	1SS400	AB
D516	VHD1SS400++-1Y	J	1SS400	AB
D519	VHD1SS400++-1Y	J	1SS400	AB
D522	VHD1SS400++-1Y	J	1SS400	AB
D523	VHD1SS400++-1Y	J	1SS400	AB
D524	VHD1SS400++-1Y	J	1SS400	AB
D525	VHD1SS400++-1Y	J	1SS400	AB
D526	VHD1SS400++-1Y	J	1SS400	AB
D527	VHD1SS400++-1Y	J	1SS400	AB
D529	VHD1SS400++-1Y	J	1SS400	AB
D1701	RH-EX1398CEZZY	J	Zener Diode, EX1398CE	AB
D2201	VHD1SS400++-1Y	J	1SS400	AB
D2204	VHD1SS400++-1Y	J	1SS400	AB
D2307	VHD1SS400++-1Y	J	1SS400	AB
D2501	VHD1SS400++-1Y	J	1SS400	AB
D2502	VHD1SS400++-1Y	J	1SS400	AB
D2509	RH-EX1398CEZZY	J	Zener Diode, EX1398CE	AB
D2510	RH-EX1398CEZZY	J	Zener Diode, EX1398CE	AB
D2511	RH-EX1398CEZZY	J	Zener Diode, EX1398CE	AB
D2512	RH-EX1398CEZZY	J	Zener Diode, EX1398CE	AB
D2513	RH-EX1398CEZZY	J	Zener Diode, EX1398CE	AB
D2601	RH-EX1398CEZZY	J	Zener Diode, EX1398CE	AB
D2602	RH-EX1398CEZZY	J	Zener Diode, EX1398CE	AB
D2603	RH-EX1398CEZZY	J	Zener Diode, EX1398CE	AB
D2605	RH-EXA094WJZZY	J	Zener Diode, EXA094WJ	AB
D2606	RH-EX1398CEZZY	J	Zener Diode, EX1398CE	AB
D2607	RH-EXA094WJZZY	J	Zener Diode, EXA094WJ	AB
D2608	RH-EXA094WJZZY	J	Zener Diode, EXA094WJ	AB
D2613	RH-EX1398CEZZY	J	Zener Diode, EX1398CE	AB
D2614	RH-EX1398CEZZY	J	Zener Diode, EX1398CE	AB
D2615	RH-EX1398CEZZY	J	Zener Diode, EX1398CE	AB
D2617	RH-EXA094WJZZY	J	Zener Diode, EXA094WJ	AB
D2618	RH-EXA094WJZZY	J	Zener Diode, EXA094WJ	AB
D2619	RH-EXA094WJZZY	J	Zener Diode, EXA094WJ	AB
D2620	RH-EXA094WJZZY	J	Zener Diode, EXA094WJ	AB
D2623	RH-EXA094WJZZY	J	Zener Diode, EXA094WJ	AB
D2624	RH-EXA094WJZZY	J	Zener Diode, EXA094WJ	AB
D2625	RH-EX1398CEZZY	J	Zener Diode, EX1398CE	AB
D2691	VHD1SS400++-1Y	J	1SS400	AB
D2692	VHD1SS400++-1Y	J	1SS400	AB
D2693	RH-EX1398CEZZY	J	Zener Diode, EX1398CE	AB
D2694	RH-EX1398CEZZY	J	Zener Diode, EX1398CE	AB
D6503	VHD1SS400++-1Y	J	1SS400	AB
D6504	VHD1SS400++-1Y	J	1SS400	AB
D6506	RH-EX1393CEZZY	J	Zener Diode, EX1393CE	AB
D6507	VHD1SS400++-1Y	J	1SS400	AB
VA2601	RH-VXA003WJZZY	J	Varistor	AC
VA2602	RH-VXA003WJZZY	J	Varistor	AC
VA2603	RH-VXA003WJZZY	J	Varistor	AC
VA2604	RH-VXA003WJZZY	J	Varistor	AC

OPT DEVICE

Ref. No.	Part No.	★	Description	Code
CN6601	VHPTOTX177L-1	J	PhotoDiode	AG

PACKAGED CIRCUITS

Ref. No.	Part No.	★	Description	Code
X501	RCRSB0205GEZZ+	J	Crystal, CRSB0205GE	AM
X502	RCRSB0138GEZZ	J	Crystal, CRSB0138GE	AD
X1701	RCRSB0249GEZZ+	J	Crystal, CRSB0249GE	AF
X1801	RCRSB0232GEZZ	J	Crystal, CRSB0232GE	AG

COILS

Ref. No.	Part No.	★	Description	Code
L1703	VP-MK100K0000+	J	Peaking, 10µH	AB
L1704	VP-MK100K0000+	J	Peaking, 10µH	AB
L1801	VP-MK101K0000+	J	Peaking, 100µH	AB
L2505	VP-MK101K0000+	J	Peaking, 100µH	AB
L2506	VP-MK101K0000+	J	Peaking, 100µH	AB
L2507	VP-MK101K0000+	J	Peaking, 100µH	AB
L2681	VP-MK101K0000+	J	Peaking, 100µH	AB
L6601	VP-MK100K0000+	J	Peaking, 10µH	AB

CAPACITORS

Ref. No.	Part No.	★	Description	Code
C501	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C502	VCKYCY0JF105ZY	J	1 6.3V Ceramic	AB
C503	VCCCCY1HH120JY	J	12p 50V Ceramic	AA
C504	VCCCCY1HH150JY	J	15p 50V Ceramic	AA
C505	VCCCCY1HH180JY	J	18p 50V Ceramic	AA
C506	VCCCCY1HH220JY	J	22p 50V Ceramic	AA
C507	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C508	VCE9EM1HW105M+	J	1 50V Electrolytic, (N.P)	AB
C511	VCKYCY0JF105ZY	J	1 6.3V Ceramic	AB
C513	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C514	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C516	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C521	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C522	VCEA9M1HW105M+	J	1 50V Electrolytic	AB
C523	VCEA2A0JW108M+	J	1000 6.3V Electrolytic	AB
C531	VCKYCY1CF104ZY	J	0.1 16V Ceramic	AA

DUNTKC799TE6A (DV-HR480S/HR450S)
DUNTKC799TE6B (DV-HR480H/HR450H)
DUNTKC799TE6D (DV-HR400S)
DUNTKC799TE6E (DV-HR400H)
SUB PWB UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
C541	RC-EZ0380GEZZ	J	F 5.5V Capacitor	AM
C542	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C551	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C553	VCKYCY1CF104ZY	J	0.1 16V Ceramic	AA
C554	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C555	VCEA9M1HW105M+	J	1 50V Electrolytic	AB
C566	VCKYCY1CF104ZY	J	0.1 16V Ceramic	AA
C745	VCKYCY1HB221KY	J	220p 50V Ceramic	AA
C746	VCKYCY1HB221KY	J	220p 50V Ceramic	AA
C747	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C748	VCEA9M1CW476M+	J	47 16V Electrolytic	AB
C1701	VCCCCY1HH220JY	J	22p 50V Ceramic	AA
C1702	VCCCCY1HH470JY	J	47p 50V Ceramic	AA
C1704	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1705	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C1706	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1707	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C1708	VCEA9M1CW226M+	J	22 16V Electrolytic	AB
C1709	VCEA9M1CW226M+	J	22 16V Electrolytic	AB
C1710	VCCCCY1HH5R0CY	J	5.0p 50V Ceramic	AA
C1711	VCCCCY1HH6R0DY	J	6.0p 50V Ceramic	AA
C1712	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1713	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1714	VCEA9M1HW105M+	J	1 50V Electrolytic	AB
C1715	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1718	VCEA9M1CW226M+	J	22 16V Electrolytic	AB
C1720	VCCCCY1HH470JY	J	47p 50V Ceramic	AA
C1723	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C1730	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C1731	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C1735	VCKYCY1HB122KY	J	1200p 50V Ceramic	AA
C1738	VCKYCY1HB122KY	J	1200p 50V Ceramic	AA
C1753	VCKYCY1HB331KY	J	330p 50V Ceramic	AA
C1801	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C1802	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1803	VCCCCY1HH150JY	J	15p 50V Ceramic	AA
C1804	VCCCCY1HH150JY	J	15p 50V Ceramic	AA
C1805	VCQYTA1HM563J+	J	0.056 50V Mylar	AB
C1806	VCEA9M1HW475M+	J	4.7 50V Electrolytic	AB
C1807	VCEA9M1HW105M+	J	1 50V Electrolytic	AB
C1808	VCEA9M1HW105M+	J	1 50V Electrolytic	AB
C2201	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C2202	VCKYCY1CB473KY	J	0.047 16V Ceramic	AA
C2203	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C2204	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C2205	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C2206	VCKYCY0JB105KY	J	1 6.3V Ceramic	AC
C2207	VCEA9M1HW105M+	J	1 50V Electrolytic	AB
C2208	VCCCCY1HH151JY	J	150p 50V Ceramic	AA
C2209	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C2210	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C2211	VCKYCY1CB473KY	J	0.047 16V Ceramic	AA
C2220	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C2221	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C2507	VCEA9M0JW227M+	J	220 6.3V Electrolytic	AB
C2508	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C2509	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C2510	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C2511	VCEA9M0JW226M+	J	22 6.3V Electrolytic	AB
C2512	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C2513	VCEA9M1HW475M+	J	4.7 50V Electrolytic	AB
C2514	VCEA9M1HW475M+	J	4.7 50V Electrolytic	AB
C2515	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C2516	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C2517	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C2518	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C2519	VCEA9M0JW226M+	J	22 6.3V Electrolytic	AB
C2520	VCKYCY1CF104ZY	J	0.1 16V Ceramic	AA
C2521	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C2524	VCEA0A0JW477M+	J	470 6.3V Electrolytic	AC
C2525	VCEA0A0JW477M+	J	470 6.3V Electrolytic	AC
C2526	VCEA0A0JW477M+	J	470 6.3V Electrolytic	AC
C2527	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C2528	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C2529	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C2530	VCEA9M0JW227M+	J	220 6.3V Electrolytic	AB
C2531	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C2532	VCEA0A0JW477M+	J	470 6.3V Electrolytic	AC
C2534	VCEA0A0JW477M+	J	470 6.3V Electrolytic	AC
C2536	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C2537	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C2538	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C2601	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C2602	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C2603	VCEA9M1HW105M+	J	1 50V Electrolytic	AB
C2604	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C2605	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C2606	VCEA9M1HW105M+	J	1 50V Electrolytic	AB
C2607	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C2608	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C2609	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C2610	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C2611	VCEA9M1HW105M+	J	1 50V Electrolytic	AB
C2612	VCEA0A1CW337M+	J	330 16V Electrolytic	AC
C2613	VCKYCY1CF104ZY	J	0.1 16V Ceramic	AA
C2614	VCKYCY1CF104ZY	J	0.1 16V Ceramic	AA
C2615	VCEA0A0JW477M+	J	470 6.3V Electrolytic	AC
C2618	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C2619	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C2620	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C2622	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C2623	VCEA9M0JW107M+	J	100 6.3V Electrolytic	AB
C2624	VCEA9M0JW107M+	J	100 6.3V Electrolytic	AB
C2625	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C2626	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C2627	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C2628	VCKYCY1HF473ZY	J	0.047 50V Ceramic	AA
C2638	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C2639	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C2640	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C2641	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C2642	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C2643	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C2644	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C2645	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C2646	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C2647	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C2669	VCKYCY1HB331KY	J	330p 50V Ceramic	AA
C2670	VCKYCY1HB331KY	J	330p 50V Ceramic	AA
C2671	VCKYCY1HB331KY	J	330p 50V Ceramic	AA
C2672	VCKYCY1HB331KY	J	330p 50V Ceramic	AA
C2673	VCKYCY1HB331KY	J	330p 50V Ceramic	AA
C2674	VCKYCY1HB331KY	J	330p 50V Ceramic	AA
C2675	VCKYCY1HB331KY	J	330p 50V Ceramic	AA
C2676	VCKYCY1HB331KY	J	330p 50V Ceramic	AA
C2677	VCCCCY1HH151JY	J	150p 50V Ceramic	AA
C2678	VCKYCY1HB331KY	J	330p 50V Ceramic	AA
C2679	VCKYCY1HB331KY	J	330p 50V Ceramic	AA
C2681	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C2682	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C2683	VCEA0A0JW477M+	J	470 6.3V Electrolytic	AC
C2684	VCEA0A0JW477M+	J	470 6.3V Electrolytic	AC
C2691	VCEA9M1HW474M+	J	0.47 50V Electrolytic	AB
C2692	VCEA9M1CW107M+	J	100 16V Electrolytic	AB
C2693	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB
C2694	VCEA0A0JW477M+	J	470 6.3V Electrolytic	AC
C2695	VCKYCY0JB105KY	J	1 6.3V Ceramic	AC
C2696	VCKYCY0JB105KY	J	1 6.3V Ceramic	AC
C2697	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C2699	VCEA0A0JW477M+	J	470 6.3V Electrolytic	AC
C6101	VCEA9M0JW227M+	J	220 6.3V Electrolytic	AB
C6102	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C6510	VCCCCY1HH471JY	J	470p 50V Ceramic	AA
C6512	VCEA9M1CW226M+	J	22 16V Electrolytic	AB
C6513	VCEA9M1CW226M+	J	22 16V Electrolytic	AB
C6517	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C6518	VCEA9M0JW227M+	J	220 6.3V Electrolytic	AB
C6519	VCQYTA1HM332J+	J	3300p 50V Mylar	AA

DUNTKC799TE6A (DV-HR480S/HR450S)
DUNTKC799TE6B (DV-HR480H/HR450H)
DUNTKC799TE6D (DV-HR400S)
DUNTKC799TE6E (DV-HR400H)
SUB PWB UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
C6520	VCCCCY1HH471JY	J	470p 50V Ceramic	AA
C6521	VCQYTA1HM332J+	J	3300p 50V Mylar	AA
C6522	VCCCCY1HH471JY	J	470p 50V Ceramic	AA
C6523	VCCCCY1HH471JY	J	470p 50V Ceramic	AA
C6524	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C6525	VCEA9M0JW227M+	J	220 6.3V Electrolytic	AB
C6527	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C6601	VCEA9M1CW107M+	J	100 16V Electrolytic	AB
C6604	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C6605	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C6606	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB

RESISTORS

Ref. No.	Part No.	★	Description	Code
JC5501	VRS-TV1JD000JY	J	0 1/16W Metal Oxide	AA
JC5502	VRS-TV1JD000JY	J	0 1/16W Metal Oxide	AA
JC5503	VRS-TV1JD000JY	J	0 1/16W Metal Oxide	AA
JC5504	VRS-TV1JD000JY	J	0 1/16W Metal Oxide	AA
JC5506	VRS-TV1JD000JY	J	0 1/16W Metal Oxide	AA
JC5507	VRS-TV1JD000JY	J	0 1/16W Metal Oxide	AA
R501	VRS-CY1JF392JY	J	3.9k 1/16W Metal Oxide	AA
R502	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R503	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R504	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R508	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R509	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R510	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R511	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R512	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R513	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R514	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R515	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R516	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R517	VRS-CY1JF822JY	J	8.2k 1/16W Metal Oxide	AA
R518	VRS-CY1JF822JY	J	8.2k 1/16W Metal Oxide	AA
R520	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R521	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R522	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R523	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R524	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R526	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R527	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R530	VRS-CY1JF563JY	J	56k 1/16W Metal Oxide	AA
R531	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R532	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R534	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R535	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R536	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R537	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R538	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R540	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R545	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R546	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R547	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R548	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R549	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R550	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R551	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R552	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R553	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R554	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R555	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R556	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R557	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R558	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R560	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R561	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R562	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R565	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R566	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R567	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R568	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R569	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R570	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R571	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R573	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R574	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R576	VRS-CY1JF151JY	J	150 1/16W Metal Oxide	AA
R577	VRS-CY1JF183JY	J	18k 1/16W Metal Oxide	AA
R578	VRS-CY1JF183JY	J	18k 1/16W Metal Oxide	AA
R579	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R581	VRS-TW2ED151JY	J	150 1/4W Metal Oxide	AA
R582	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R584	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R585	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R586	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R587	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R588	VRS-CY1JF183JY	J	18k 1/16W Metal Oxide	AA
R589	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R590	VRS-TW2ED151JY	J	150 1/4W Metal Oxide	AA
R591	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R593	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R597	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R598	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R701	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R702	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R708	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R709	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R711	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R713	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R714	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R716	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R717	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R718	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R719	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R720	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R721	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R722	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R726	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R727	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R728	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R729	VRS-CY1JF681JY	J	680 1/16W Metal Oxide	AA
R756	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R757	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R758	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R759	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R760	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R763	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R764	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R765	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R767	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R770	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R773	VRS-CY1JF392JY	J	3.9k 1/16W Metal Oxide	AA
R776	VRS-CY1JF122JY	J	1.2k 1/16W Metal Oxide	AA
R777	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R781	VRS-CY1JF122JY	J	1.2k 1/16W Metal Oxide	AA
R784	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R786	VRS-CY1JF122JY	J	1.2k 1/16W Metal Oxide	AA
R789	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R790	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R792	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R798	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R1703	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R1710	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R1711	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R1714	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R1720	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1723	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1748	VRS-TW2ED101JY	J	100 1/4W Metal Oxide	AA
R1749	VRS-CY1JF333JY	J	33k 1/16W Metal Oxide	AA
R1750	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R1801	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1802	VRS-CY1JF272JY	J	2.7k 1/16W Metal Oxide	AA
R1803	VRS-CY1JF562JY	J	5.6k 1/16W Metal Oxide	AA
R1814	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1817	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1818	VRS-TW2ED471JY	J	470 1/4W Metal Oxide	AA
R1820	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R1822	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA

DUNTKC799TE6A (DV-HR480S/HR450S)
DUNTKC799TE6B (DV-HR480H/HR450H)
DUNTKC799TE6D (DV-HR400S)
DUNTKC799TE6E (DV-HR400H)
SUB PWB UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R1823	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1824	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R1825	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R1826	VRS-TW2ED471JY	J	470 1/4W Metal Oxide	AA
R2201	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R2202	VRS-CY1JF125JY	J	1.2M 1/16W Metal Oxide	AA
R2203	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R2204	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2205	VRS-CY1JF125JY	J	1.2M 1/16W Metal Oxide	AA
R2206	VRS-CY1JF334JY	J	330k 1/16W Metal Oxide	AA
R2207	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2208	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R2209	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R2210	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2211	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2212	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R2213	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R2214	VRS-CY1JF682JY	J	6.8k 1/16W Metal Oxide	AA
R2215	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2216	VRS-CY1JF682JY	J	6.8k 1/16W Metal Oxide	AA
R2217	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2218	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2219	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2220	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2221	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2222	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R2223	VRS-CY1JF125JY	J	1.2M 1/16W Metal Oxide	AA
R2224	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R2225	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2226	VRS-CY1JF125JY	J	1.2M 1/16W Metal Oxide	AA
R2227	VRS-CY1JF334JY	J	330k 1/16W Metal Oxide	AA
R2228	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2232	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2233	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2234	VRS-CY1JF682JY	J	6.8k 1/16W Metal Oxide	AA
R2235	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2236	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R2237	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2238	VRS-CY1JF682JY	J	6.8k 1/16W Metal Oxide	AA
R2239	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2240	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R2301	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R2341	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R2342	VRS-TW2ED750JY	J	75 1/4W Metal Oxide	AA
R2521	VRS-CY1JF153JY	J	15k 1/16W Metal Oxide	AA
R2525	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R2528	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2529	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2530	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2531	VRS-CY1JF271JY	J	270 1/16W Metal Oxide	AA
R2538	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2542	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2546	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2554	VRS-CY1JF271JY	J	270 1/16W Metal Oxide	AA
R2558	VRS-CY1JF271JY	J	270 1/16W Metal Oxide	AA
R2559	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R2560	VRS-CY1JF271JY	J	270 1/16W Metal Oxide	AA
R2561	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R2562	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R2563	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2564	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2565	VRS-CY1JF122JY	J	1.2k 1/16W Metal Oxide	AA
R2566	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R2567	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2568	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2601	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2602	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2603	VRS-TQ2BD750JY	J	75 1/8W Metal Oxide	AA
R2604	VRS-TQ2BD750JY	J	75 1/8W Metal Oxide	AA
R2605	VRS-CY1JF821JY	J	820 1/16W Metal Oxide	AA
R2606	VRS-CY1JF821JY	J	820 1/16W Metal Oxide	AA
R2607	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2608	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2609	VRS-CY1JF821JY	J	820 1/16W Metal Oxide	AA
R2610	VRS-CY1JF821JY	J	820 1/16W Metal Oxide	AA
R2611	VRS-TQ2BD750JY	J	75 1/8W Metal Oxide	AA
R2612	VRS-TQ2BD750JY	J	75 1/8W Metal Oxide	AA
R2613	VRS-TQ2BD750JY	J	75 1/8W Metal Oxide	AA
R2614	VRS-TQ2BD750JY	J	75 1/8W Metal Oxide	AA
R2615	VRS-TQ2BD750JY	J	75 1/8W Metal Oxide	AA
R2616	VRS-TQ2BD750JY	J	75 1/8W Metal Oxide	AA
R2617	VRS-TQ2BD750JY	J	75 1/8W Metal Oxide	AA
R2618	VRS-TQ2BD750JY	J	75 1/8W Metal Oxide	AA
R2619	VRS-CY1JF152JY	J	1.5k 1/16W Metal Oxide	AA
R2620	VRS-CY1JF152JY	J	1.5k 1/16W Metal Oxide	AA
R2621	VRS-CY1JF750JY	J	75 1/16W Metal Oxide	AA
R2622	VRS-CY1JF750JY	J	75 1/16W Metal Oxide	AA
R2623	VRS-CY1JF750JY	J	75 1/16W Metal Oxide	AA
R2624	VRS-CY1JF750JY	J	75 1/16W Metal Oxide	AA
R2627	VRS-CY1JF750JY	J	75 1/16W Metal Oxide	AA
R2628	VRS-CY1JF750JY	J	75 1/16W Metal Oxide	AA
R2636	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2637	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2660	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2670	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R2674	VRS-TV1JD000JY	J	0 1/16W Metal Oxide	AA
R2675	VRS-TV1JD000JY	J	0 1/16W Metal Oxide	AA
R2676	VRS-TV1JD000JY	J	0 1/16W Metal Oxide	AA
R2677	VRS-TV1JD000JY	J	0 1/16W Metal Oxide	AA
R2683	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2684	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2691	VRS-CY1JF682JY	J	6.8k 1/16W Metal Oxide	AA
R2692	VRS-CY1JF153JY	J	15k 1/16W Metal Oxide	AA
R2693	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R2694	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2901	VRS-TW2ED331JY	J	330 1/4W Metal Oxide	AB
R2903	VRS-CY1JF183JY	J	18k 1/16W Metal Oxide	AA
R2904	VRS-CY1JF153JY	J	15k 1/16W Metal Oxide	AA
R2907	VRS-CY1JF821JY	J	820 1/16W Metal Oxide	AA
R5504	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R5556	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R5557	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R5558	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R5559	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R5568	VRS-CY1JF562JY	J	5.6k 1/16W Metal Oxide	AA
R5569	VRS-CY1JF562JY	J	5.6k 1/16W Metal Oxide	AA
R5580	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R5581	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R5584	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R5585	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R5588	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R5589	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R5590	VRS-CY1JF221JY	J	220 1/16W Metal Oxide	AA
R5591	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R5592	VRS-CY1JF273JY	J	27k 1/16W Metal Oxide	AA
R5595	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R6101	VRS-TQ2BD330JY	J	33 1/8W Metal Oxide	AA
R6106	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R6107	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R6108	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R6109	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R6110	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R6111	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R6502	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R6503	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R6505	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R6506	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R6515	VRS-CY1JF681JY	J	680 1/16W Metal Oxide	AA
R6516	VRS-CY1JF681JY	J	680 1/16W Metal Oxide	AA
R6517	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R6518	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R6520	VRS-CY1JF271JY	J	270 1/16W Metal Oxide	AA
R6521	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R6522	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R6523	VRS-CY1JF271JY	J	270 1/16W Metal Oxide	AA
R6524	VRS-CY1JF272JY	J	2.7k 1/16W Metal Oxide	AA
R6525	VRS-CY1JF272JY	J	2.7k 1/16W Metal Oxide	AA
R6527	VRS-CY1JF392JY	J	3.9k 1/16W Metal Oxide	AA

DUNTKC799TE6A (DV-HR480S/HR450S)
DUNTKC799TE6B (DV-HR480H/HR450H)
DUNTKC799TE6D (DV-HR400S)
DUNTKC799TE6E (DV-HR400H)
SUB PWB UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R6528	VRS-CY1JF392JY	J	3.9k 1/16W Metal Oxide	AA
R6529	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R6530	VRS-CY1JF181JY	J	180 1/16W Metal Oxide	AA
R6531	VRS-CY1JF181JY	J	180 1/16W Metal Oxide	AA
R6532	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R6533	VRS-CY1JF392JY	J	3.9k 1/16W Metal Oxide	AA
R6534	VRS-CY1JF181JY	J	180 1/16W Metal Oxide	AA
R6535	VRS-CY1JF392JY	J	3.9k 1/16W Metal Oxide	AA
R6536	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R6537	VRS-CY1JF181JY	J	180 1/16W Metal Oxide	AA
R6538	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R6541	VRS-TV1JD000JY	J	0 1/16W Metal Oxide	AA
R6544	VRS-TW2ED101JY	J	100 1/4W Metal Oxide	AA
R6554	VRS-TV1JD000JY	J	0 1/16W Metal Oxide	AA
R6601	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R6602	VRS-CY1JF272JY	J	2.7k 1/16W Metal Oxide	AA
R6603	VRS-TW2ED221JY	J	220 1/4W Metal Oxide	AB
R6604	VRS-CY1JF151JY	J	150 1/16W Metal Oxide	AA
R6605	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R6606	VRS-CY1JF681JY	J	680 1/16W Metal Oxide	AA
R6608	VRS-TW2ED221JY	J	220 1/4W Metal Oxide	AB

BALUN PARTS

Ref. No.	Part No.	★	Description	Code
FB502	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB514	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB2601	RBLN-0077TAZZY	J	Balun, BLN-0077TA	AB
FB2602	RBLN-0077TAZZY	J	Balun, BLN-0077TA	AB
FB2605	RBLN-0077TAZZY	J	Balun, BLN-0077TA	AB
FB2606	RBLN-0077TAZZY	J	Balun, BLN-0077TA	AB
FB2607	RBLN-0077TAZZY	J	Balun, BLN-0077TA	AB
FB2608	RBLN-0076TAZZY	J	Balun, BLN-0076TA	AC
FB2609	RBLN-0077TAZZY	J	Balun, BLN-0077TA	AB
FB2610	RBLN-0077TAZZY	J	Balun, BLN-0077TA	AB
FB2611	RBLN-0077TAZZY	J	Balun, BLN-0077TA	AB
FB2612	RBLN-0077TAZZY	J	Balun, BLN-0077TA	AB
FB2613	RBLN-0077TAZZY	J	Balun, BLN-0077TA	AB
FB2614	RBLN-0076TAZZY	J	Balun, BLN-0076TA	AC
FB2615	RBLN-0077TAZZY	J	Balun, BLN-0077TA	AB
FB2616	RBLN-0077TAZZY	J	Balun, BLN-0077TA	AB
FB6601	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
CN2201	QSOCN2199REZZ	J	Socket, 21Pin	AD
CN2202	QSOCN2799REZZ	J	Socket, 27Pin	AE
J2601	QTANJA006WJZZ	J	Terminal, 4Pin (COMPONENT_OUT)	AE
J2602	QJAKGA035WJZZ	J	Jack, 4Pin (OUTPUT JACK)	AD
J6601	QTANJA013WJZZ	J	Terminal	AD
P501	QPLGN1078GEZZ	J	Plug, 10Pin	AC
P502	QPLGN1178GEZZ	J	Plug, 11Pin	AC
P503	QPLGN0378GEZZ	J	Plug, 3Pin	AB
P504	QPLGZ1046GEZZ	J	Plug, 10Pin	AC
P505	QPLGN0378GEZZ	J	Plug, 3Pin	AB
P506	QPLGN0978GEZZ	J	Plug, 9Pin	AC
P1401	QPLGZ0546GEZZ	J	Plug, 5Pin	AB
S501	QSOCN0599REZZ	J	Socket, 5Pin	AD
S502	QSOCN1999REZZ	J	Socket, 19Pin	AD
S503	QSOCN1599REZZ	J	Socket, 15Pin	AD
SC2601	QSOCZ2102REZZ	J	Socket	AH
SC2602	QSOCZ2102REZZ	J	Socket	AH
SC2603	QSOCD0445AJZZ	J	Socket, 5Pin,(S_OUT PUT)	AF
W501	QEARPA013WJZZ	J	Ground-Part	AC
W502	QEARPA013WJZZ	J	Ground-Part	AC

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G-LINK PWB UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC5401	RH-iXA911WJZZQ	J	iXA911WJ	AW

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q5402	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q5405	VS2SC3052EF-1Y	J	2SC3052EF	AC

PACKAGED CIRCUITS

Ref. No.	Part No.	★	Description	Code
X5401	RCRSB0128GEZZ+	J	Crystal, CRSB0128GE	

CAPACITORS

Ref. No.	Part No.	★	Description	Code
C5401	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C5402	VCEA9M1CW107M+	J	100 16V Electrolytic	AB
C5403	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA

RESISTORS

Ref. No.	Part No.	★	Description	Code
R5406	VRS-TQ2BD000JY	J	0 1/8W Metal Oxide	AA
R5410	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R5411	VRS-CY1JF470JY	J	47 1/16W Metal Oxide	AA
R5412	VRS-CY1JF470JY	J	47 1/16W Metal Oxide	AA
R5413	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R5414	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R5415	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R5416	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R5417	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R5418	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R5420	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R5421	VRS-CY1JF273JY	J	27k 1/16W Metal Oxide	AA
R5422	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R5423	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R5424	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R5425	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R5426	VRS-TQ2BD680JY	J	68 1/8W Metal Oxide	AA
R5427	VRS-TQ2BD560JY	J	56 1/8W Metal Oxide	AA
R5428	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R5429	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R5430	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R5432	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R5434	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
FB5401	RBLN-0077TAZZY	J	Balun, BLN-0077TA	AB
J5402	QJAKEA055WJZZ	J	Jack, 4Pin	AD
P5402	QPLGN0364TAZZY	J	Plug, 3Pin	AC
P5403	QPLGN1074TAZZY	J	Plug, 10Pin	AD
W5401	QEARPA013WJZZ+	J	Ground-Part	AB

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POWER PWB UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC903	VHiMM1431AT-1+	J	MM1431AT	AD
IC9001	VHiPQ07VK02-1	J	PQ07VK02	AK
IC9002	VHiPQ07VK02-1	J	PQ07VK02	AK

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
⚠ Q901	VS2SK2624LS-G	J	2SK2624LS	AG
⚠ Q902	VS2SD2144S/-1+	J	2SD2144S	AC
⚠ Q904	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q9001	VS2SB1342++-1	J	2SB1342,DR_12V	
Q9002	VSRT1P141C/-1Y	J	RT1P141C	AB
Q9004	VS2SB1592++-1+	J	2SB1592	AE
Q9005	VSRT1N141C/-1Y	J	RT1N141C	AB
Q9006	VS2SB1592++-1+	J	2SB1592	AE
Q9007	VSRT1N141C/-1Y	J	RT1N141C	AB
Q9008	VSRT1N141C/-1Y	J	RT1N141C	AB
Q9009	VS2SB1592++-1+	J	2SB1592	AE
Q9014	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q9015	VSRT1N441C/-1Y	J	RT1N441C	AB
Q9016	VSRT1N441C/-1Y	J	RT1N441C	AB
Q9017	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q9018	VS2SA1530ARS1Y	J	2SA1530ARS	AC

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POWER PWB UNIT(Continued)

DIODES

Ref. No.	Part No.	★	Description	Code
⚠ D901	VHDRL1N4005-1Y	J	RL1N4005	AC
⚠ D902	VHDRL1N4005-1Y	J	RL1N4005	AC
⚠ D903	VHDRL1N4005-1Y	J	RL1N4005	AC
⚠ D904	VHDRL1N4005-1Y	J	RL1N4005	AC
⚠ D905	RH-EX0630GEZZY	J	Zener Diode, EX0630GE	AA
⚠ D907	VHD1SS119//-1Y	J	1SS119	AA
⚠ D909	RH-EX0646GEZZY	J	Zener Diode, EX0646GE	AA
⚠ D910	VHD10ERB40+-1Y	J	10ERB40	AB
⚠ D912	VHDERA2206/-1Y	J	ERA2206	AC
⚠ D913	VHD1SS119//-1Y	J	1SS119	AA
⚠ D914	RH-EX0627GEZZY	J	Zener Diode, EX0627GE	AA
D9001	VHD10ERB40+-1Y	J	10ERB40	AB
D9003	VHDSF6L20U+-1	J	SF6L20U	AG
D9005	RH-EX0649GEZZY	J	Zener Diode, EX0649GE	AB
D9006	RH-EX0677GEZZY	J	Zener Diode, EX0677GE	AC
D9007	RH-DX0459CEZZ	J	DX0459CE	AE
D9008	RH-EX0618GEZZY	J	Zener Diode, EX0618GE	AB
D9009	RH-DX0456CEZZ	J	DX0456CE	AF
D9010	RH-DX0456CEZZ	J	DX0456CE	AF
D9011	VHD10ERB40+-1Y	J	10ERB40	AB
D9012	VHD1SS119//-1Y	J	1SS119	AA
D9014	VHD1SS119//-1Y	J	1SS119	AA
D9015	VHD1SS119//-1Y	J	1SS119	AA
D9016	VHD1SS119//-1Y	J	1SS119	AA
D9017	VHD1SS119//-1Y	J	1SS119	AA
D9018	VHD1SS119//-1Y	J	1SS119	AA
D9019	VHD1SS119//-1Y	J	1SS119	AA
D9020	VHD1SS119//-1Y	J	1SS119	AA
D9023	RH-DX0456CEZZ	J	DX0456CE	AF
D9024	VHD1SS119//-1Y	J	1SS119	AA
D9025	RH-EX0621GEZZY	J	Zener Diode, EX0621GE	AB
D9026	VHD1SS119//-1Y	J	1SS119	AA
⚠ IC901	RH-FXA003WJZZ	J	PC123Y82	AD
⚠ IC902	RH-FXA003WJZZ	J	PC123Y82	AD

COIL AND TRANSFORMERS

Ref. No.	Part No.	★	Description	Code
⚠ L901	RCiLFA078WJZZ	J	Coil	AF
⚠ L902	RCiLFA174WJPZ	J	Coil	
L9001	RCiLP0184CEZZ	J	Coil, 10µH	AE
L9002	RCiLP0184CEZZ	J	Coil, 10µH	AE
L9004	RCiLP0171CEZZ+	J	Coil, 10µH	AD
⚠ T901	RTRNWA166WJZZ	J	Transformer	

CAPACITORS

Ref. No.	Part No.	★	Description	Code
⚠ C901	RC-FZA140WJZZ	J	0.1 250V	AD
⚠ C902	RC-FZA140WJZZ	J	0.1 250V	AD
⚠ C903	RC-KZ0105GEZZ	J	2200 250V	AD
⚠ C905	VCQYTA1HM272J+	J	2700p 50V Mylar	
⚠ C907	VCFYAA2GA473K+	J	0.047 400V	AE
⚠ C908	RC-KZ0112CEZZ+	J	220 1kV	AB
⚠ C909	VCQYTA1HM562K+	J	5600p 50V Mylar	AB
⚠ C910	VCEA9A1HW475M+	J	4.7 50V Electrolytic	AB
⚠ C911	RC-KZ0112CEZZ	J	Capacitor	AB
⚠ C914	RC-KZ0103GEZZ	J	1000p 250V	AD
⚠ C915	RC-KZ0103GEZZ	J	1000p 250V	AD
C927	VCQYTA1HM104K+	J	0.1 50V Mylar	AC
C928	VCQYTA1HM104K+	J	0.1 50V Mylar	AC
⚠ C929	RC-EZA255WJZZ	J	220 400V	AP
C948	VCEA9M1CW106M+	J	10 16V Electrolytic	AB
C9001	VCEA0M2AW106M+	J	10 100V Electrolytic	AB
C9003	RC-EZ1236CEZZ	J	680 25V	AD
C9004	VCEA0A1EW228M	J	2200 25V Electrolytic	AF
C9005	RC-EZ1206CEZZ	J	1200 10V	AE
C9006	RC-EZ1206CEZZ	J	1200 10V	AE
C9008	VCEA0A1AW108M+	J	1000 10V Electrolytic	AC
C9009	RC-EZ1206CEZZ	J	1200 10V	AE
C9010	VCEA0A1CW227M+	J	220 16V Electrolytic	AC
C9011	VCEA0A1AW338M	J	3300 10V Electrolytic	AE
C9013	VCEA9M1HW474M+	J	0.47 50V Electrolytic	AB
C9014	VCEA9M0JW107M+	J	100 6.3V Electrolytic	AB
C9015	VCEA9M1HW474M+	J	0.47 50V Electrolytic	AB
C9016	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C9017	RC-EZ1206CEZZ	J	1200 10V	AE
C9018	RC-EZ1236CEZZ	J	680 25V	AD
C9021	VCEA9M1HW105M+	J	1 50V Electrolytic	AB
C9023	VCEA0A1EW477M+	J	470 25V Electrolytic	AD
C9024	VCKYCY1CB104KY	J	0.1 16V Ceramic	AB

RESISTORS

Ref. No.	Part No.	★	Description	Code
⚠ R901	VRD-RA2EE474JY	J	470k 1/4W Carbon	AA
⚠ R902	RR-HZ0014GEZZY	J	12M	AE
⚠ R903	VRS-CY1JF563JY	J	56k 1/16W Metal Oxide	AA
⚠ R905	VRD-RM2HD681JY	J	680 1/2W Carbon	AB
⚠ R907	VRD-RM2HD184JY	J	180k 1/2W Carbon	AA
⚠ R908	VRD-RM2HD184JY	J	180k 1/2W Carbon	AA
⚠ R910	VRN-VV3DBR22J	J	0.22 2W Metal Film	AB
⚠ R911	VRD-RA2BE273JY	J	27k 1/8W Carbon	AA
⚠ R912	VRS-CY1JF273JY	J	27k 1/16W Metal Oxide	AA
⚠ R914	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
⚠ R916	RR-SZ0007GEZZ	J	Resistor	AB
⚠ R917	VRS-CY1JF153JY	J	15k 1/16W Metal Oxide	AA
⚠ R919	VRD-RA2BE181JY	J	180 1/8W Carbon	AA
R921	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R923	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R924	VRS-CY1JF102FY	J	1k 1/16W Metal Oxide	AA
R925	VRS-CY1JF102FY	J	1k 1/16W Metal Oxide	AA
R926	VRS-CY1JF121FY	J	120 1/16W Metal Oxide	AA
R927	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R928	VRS-CY1JF221JY	J	220 1/16W Metal Oxide	AA
R932	VRS-CY1JF183JY	J	18k 1/16W Metal Oxide	AA
R9001	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R9002	VRD-RA2BE473JY	J	47k 1/8W Carbon	AA
R9003	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R9005	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R9006	VRD-RM2HD221JY	J	220 1/2W Carbon	AA
R9007	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R9008	VRD-RM2HD221JY	J	220 1/2W Carbon	AA
R9009	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R9010	VRD-RM2HD221JY	J	220 1/2W Carbon	AA
R9011	VRS-CY1JF272FY	J	2.7k 1/16W Metal Oxide	AA
R9012	VRS-CY1JF182FY	J	1.8k 1/16W Metal Oxide	AA
R9013	VRS-CY1JF223FY	J	22k 1/16W Metal Oxide	AA
R9014	VRS-CY1JF102FY	J	1k 1/16W Metal Oxide	AA
R9015	VRS-CY1JF102FY	J	1k 1/16W Metal Oxide	AA
R9026	VRS-CY1JF562JY	J	5.6k 1/16W Metal Oxide	AA
R9029	VRD-RM2HD151JY	J	150 1/2W Carbon	AA
R9033	VRD-RM2HD102JY	J	1k 1/2W Carbon	AA
R9034	VRS-CY1JF392JY	J	3.9k 1/16W Metal Oxide	AA
R9035	VRS-CY1JF272JY	J	2.7k 1/16W Metal Oxide	AA
R9036	VRS-CY1JF391JY	J	390 1/16W Metal Oxide	AA
R9037	VRD-RA2BE682JY	J	6.8k 1/8W Carbon	AA
R9038	VRD-RA2BE152JY	J	1.5k 1/8W Carbon	AA
R9040	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R9041	VRS-CY1JF222JY	J	2.2k 1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
⚠ F901	QFS-C2025CEZZ	J	Fuse,2A, 250V	AD
⚠ FB903	RBLN-0090GEZZY	J	Balun, BLN-0090GE	AB
⚠ FH901	QFSHD1018CEZZ+	J	Fuse Holder	AC
⚠ FH902	QFSHD1017CEZZ+	J	Fuse Holder	AC
⚠ P901	QPLGN0269GEZZ	J	Plug,2Pin (AC IN)	AB
P9001	QPLGN0578GEZZ	J	Plug,5 Pin (DVD-RW DRIVE)	AB
P9002	QPLGN0441CEZZ	J	Plug,4Pin (HDD)	AB
P9003	QPLGN1178GEZZ	J	Plug,11Pin (SUB PWB)	AC
P9004	QPLGN1078GEZZ	J	Plug,10Pin (SUB PWB)	AC
P9005	QPLGN1278GEZZ	J	Plug,12Pin (MAIN PWB)	AC
⚠ W901	PRDAF5021AJFW	J	Heat Sink	AE
W9001	PRDAR0103AJFW	J	Heat Sink	AE
W9002	PRDAR0103AJFW	J	Heat Sink	AE
W9005	PRDARA044WJFW	J	Heat Sink	AE
W9014	PRDAR0103AJFW	J	Heat Sink	AE
W9052	QEARPA013WJZZ	J	Ground-Part	AC
W9053	QEARPA013WJZZ	J	Ground-Part	AC
W9054	QEARPA013WJZZ	J	Ground-Part	AC
W9055	QEARPA013WJZZ	J	Ground-Part	AC
	PSPAZA371WJZZ	J	Spacer	AB

DUNTKC802TEV1(DV-HR480S/HR480H /HR450S/HR450H)
DUNTKC802TEV2(DV-HR400S/HR400H)
OPERATION (L) PWB UNIT

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q2701	VSRT1P141C/-1Y	J	RT1P141C,STBY LED	AB
Q2703	VSRT1P141C/-1Y	J	RT1P141C,TIMER LED	AB

DIODES AND LED'S

Ref. No.	Part No.	★	Description	Code
D2701	RH-PXA094WJZZ+	J	PhotoDiode,STBY LED(RED)	
D2703	RH-PXA094WJZZ+	J	PhotoDiode,TIMER LED(RED)	
D2704	RH-PXA094WJZZ+	J	PhotoDiode,HDD REC LED(RED)	

CAPACITORS

Ref. No.	Part No.	★	Description	Code
C2701	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C2703	VCKYCY1CF104ZY	J	0.1 16V Ceramic	AA
C2706	VCKYCY1CF104ZY	J	0.1 16V Ceramic	AA

RESISTORS

Ref. No.	Part No.	★	Description	Code
R2701	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R2704	VRS-CY1JF750JY	J	75 1/16W Metal Oxide	AA
R2705	VRS-CY1JF750JY	J	75 1/16W Metal Oxide	AA
R2706	VRS-CY1JF750JY	J	75 1/16W Metal Oxide	AA
R2709	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R2710	VRS-CY1JF392JY	J	3.9k 1/16W Metal Oxide	AA
R2712	VRS-CY1JF392JY	J	3.9k 1/16W Metal Oxide	AA
R2713	VRS-CY1JF563JY	J	56k 1/16W Metal Oxide	AA
R2714	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R2715	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R2716	VRS-CY1JF822JY	J	8.2k 1/16W Metal Oxide	AA
R2717	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R2718	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R2719	VRS-CY1JF272JY	J	2.7k 1/16W Metal Oxide	AA
R2720	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2721	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2722	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2723	VRS-CY1JF392JY	J	3.9k 1/16W Metal Oxide	AA
R2724	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R2725	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
RJ301	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
RJ302	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
RJ303	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
RJ304	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
RJ305	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
J2701	QSOCD0439CEZZ	J	Socket, 7Pin	AF
J2702	QJAKGA053WJZZ	J	Jack, 8Pin	AE
J2703	QSOCZA043WJZZ	J	Socket,4Pin (DV-HR480S/HR480H /HR450S/HR450H)	AG
P2701	QPLGN0580GEZZ	J	Plug, 5Pin,(DV) (DV-HR480S/HR480H /HR450S/HR450H)	AB
RMC2702	RRMCU0064GEZZ	J	RC-UNIT	AG
SC2701	QSOCN0616FJZZ	J	Socket,19Pin	AD
SW2701	QSW-K0003AJZZ+	J	Switch, (POWER SW)	AB
SW2702	QSW-K0003AJZZ+	J	Switch, (RESET)	AB
SW2703	QSW-K0003AJZZ+	J	Switch, (HDD REC)	AB
SW2704	QSW-K0003AJZZ+	J	Switch, (HDD REC STOP)	AB
SW2705	QSW-K0003AJZZ+	J	Switch, (HDD PLAY/STOP)	AB
W2701	QEARPA013WJZZ	J	Ground-Part	AC
W2702	QEARPA013WJZZ	J	Ground-Part	AC

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OPERATION (R) PWB UNIT

DIODES

Ref. No.	Part No.	★	Description	Code
D5003	RH-PXA094WJZZ+	J	PhotoDiode,DVD_REC_LED	

RESISTORS

Ref. No.	Part No.	★	Description	Code
R5001	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R5002	VRS-CY1JF392JY	J	3.3k 1/16W Metal Oxide	AA
R5028	VRS-CY1JF563JY	J	56k 1/16W Metal Oxide	AA
R5032	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R5036	VRS-CY1JF822JY	J	8.2k 1/16W Metal Oxide	AA
R5038	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R5040	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R5041	VRS-CY1JF272JY	J	2.7k 1/16W Metal Oxide	AA
R5042	VRS-CY1JF272JY	J	2.7k 1/16W Metal Oxide	AA
R5049	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
S5001	QSOCN0602FJZZ	J	Socket, 5Pin	AC
SW5001	QSW-K0003AJZZ+	J	Switch, CH+	AB
SW5002	QSW-K0003AJZZ+	J	Switch, CH-	AB
SW5005	QSW-K0003AJZZ+	J	Switch, TEST	AB
SW5009	QSW-K0003AJZZ+	J	Switch, DVD PLAY/STOP	AB
SW5012	QSW-K0003AJZZ+	J	Switch, OPEN/CLOSE	AB
SW5013	QSW-K0003AJZZ+	J	Switch, DVD REC STOP	AB
SW5014	QSW-K0003AJZZ+	J	Switch, DVD REC	AB

DUNTKC805TEV1
UV TUNER PWB UNIT

TUNER

Ref. No.	Part No.	★	Description	Code
TU1501	VTUK0601PD20H	J	VHF Tuner,UV TUNER	AZ

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q1501	VSRT1N241C/-1Y	J	KRC103S	AB
Q1502	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q1503	VSRT1N241C/-1Y	J	RT1N241C	AB
Q1504	VS2SB1117KU1E+	J	2SB1117KU1E	AE

DIODES

Ref. No.	Part No.	★	Description	Code
D1501	RH-EX0674GEZZY	J	Zener Diode, EX0674GE	AB
D1502	RH-EX0627GEZZY	J	Zener Diode, EX0627GE	AA
D1503	RH-EX0627GEZZY	J	Zener Diode, EX0627GE	AA

COILS

Ref. No.	Part No.	★	Description	Code
L1501	VP-CF101K0000Y	J	Peaking, 100µH	AB
L1502	VP-CF101K0000Y	J	Peaking, 100µH	AB

CAPACITORS

Ref. No.	Part No.	★	Description	Code
C1501	VCEA0A1HW476M+	J	47 50V Electrolytic	AB
C1502	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1503	VCEA9M0JW476M+	J	47 6.3V Electrolytic	AB
C1504	VCEA0A0JW477M+	J	470 6.3V Electrolytic	AC
C1505	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1506	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C1507	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C1508	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C1509	VCKYCY1CF104ZY	J	0.1 16V Ceramic	AA

RESISTORS

Ref. No.	Part No.	★	Description	Code
R1501	VRS-CY1JF154JY	J	150k 1/16W Metal Oxide	AA
R1502	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1503	VRD-RM2HD102JY	J	1k 1/2W Carbon	AA
R1504	VRD-RM2HD221JY	J	220 1/2W Carbon	AA
R1505	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R1506	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R1508	VRD-RA2BE224JY	J	220k 1/8W Carbon	AA
R1512	VRS-CY1JF681JY	J	680 1/16W Metal Oxide	AA
R1513	VRS-CY1JF681JY	J	680 1/16W Metal Oxide	AA
R1519	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R1523	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R1525	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R1526	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R1531	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
S1501	QSOCN0579GEZZ	J	Socket, 5Pin (TO SUB3)	AC
S1502	QSOCN1079GEZZ	J	Socket, 10Pin (TO SUB1)	AC

DUNTKD053TE6C(DV-HR450S)
DUNTKD053TE6D(DV-HR480S)
DUNTKD053TE6E(DV-HR450H)
DUNTKD053TE6F(DV-HR480H)
DUNTKD054TE6B(DV-HR400S)
DUNTKD054TE6C(DV-HR400H)
MAIN PWB UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC3002	VHiBU4053V/-1Y	J	BU4053V (DV-HR480S/HR480H /HR450S/HR450H)	AE
IC3003	VHiNJM4565M-1Y	J	NJM4565M (DV-HR480S/HR480H /HR450S/HR450H)	AE
IC3004	VHiSNLVU04+-1Y	J	SNLVU04	AD
IC3005	VHiAK5357ET-1Y	J	AK5357ET	
IC3009	VHiAK4385ET-1Y	J	AK4385ET	
IC3011	VHiSAHC125H-1Y	J	SAHC125H	AE
IC3502	VHiTVP5146P-1Q	J	TVP5146P	BG
IC3504	VHiMM1561JF-1Y	J	MM1561JF	
IC3701	VHiADV7322+-1Q	J	ADV7322	
IC3702	VHiLV4053AT-1Y	J	LV4053AT	AE
IC4001	RH-iXB317WJZZQ	J	iXB317WJ (DV-HR480S/HR480H /HR450S/HR450H)	AN
IC4003	RH-iXA771WJZZQ	J	iXA771WJ (DV-HR480S/HR480H /HR450S/HR450H)	
IC4004	RH-iXA898WJZZQ	J	iXA898WJ (DV-HR480S/HR480H /HR450S/HR450H)	BE
IC4006	VHiNJU7012F-1Y	J	NJU7012F (DV-HR480S/HR480H /HR450S/HR450H)	AE
IC4007	VHiPCM3008+-1Y	J	PCM3008 (DV-HR480S/HR480H /HR450S/HR450H)	AN
IC4008	VHiSNLVU04+-1Y	J	SNLVU04 (DV-HR480S/HR480H /HR450S/HR450H)	AD
IC4602	RH-iXB369WJZZQ	J	iXB369WJ	
IC4603	RH-iXB369WJZZQ	J	iXB369WJ	
IC7503	VHiPQ070XH2-1Y	J	PQ070XH2	AG
IC7504	VHiBR24L16F-1Y	J	BR24L16F	AF
IC7507	RH-iXA965WJZZQ	J	iXA965WJ	AZ
IC7508	RH-iXB025WJZZQ	J	iXB025WJ	BS

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q3001	VSRT1P241C/-1Y	J	RT1P241C	AB
Q3002	VSRT1N241C/-1Y	J	RT1N241C	AB
Q3501	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q3502	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q3503	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q3504	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q3505	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q3507	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q3511	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q3512	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q3513	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q3514	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q3515	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q3516	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q3517	VS2SC3052EF-1Y	J	2SC3052EF	AC
Q3701	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q3702	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q3703	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q3704	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q3705	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q3706	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q3707	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q4001	VSUMG1N++++-1Y	J	UMG1N (DV-HR480S/HR480H /HR450S/HR450H)	AC
Q4003	VSDTC124EE/-1Y	J	DTC124EE (DV-HR480S/HR480H /HR450S/HR450H)	AA
Q7501	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q7502	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q7503	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q7505	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q7506	VS2SA1530ARS1Y	J	2SA1530ARS	AC
Q7512	VSRT1N241C/-1Y	J	RT1N241C	AB

DIODES

Ref. No.	Part No.	★	Description	Code
D4001	VHDHVC359TR-1Y	J	HVC359TR	AD
D4002	VHDHVC362//-1Y	J	HVC362	AD

PACKAGED CIRCUITS

Ref. No.	Part No.	★	Description	Code
X3001	RCRSCA101WJZZY	J	Crystal, CRSCA101WJ	
X3502	RCRSCA085WJZZY	J	Crystal, CRSCA085WJ	AH
X4001	RCRSCA056WJZZY	J	Crystal, CRSCA056WJ (DV-HR480S/HR480H /HR450S/HR450H)	

COILS

Ref. No.	Part No.	★	Description	Code
L3503	VPCNN220J2R9NY	J	Peaking, 22μH	AB
L3504	VPCNN220J2R9NY	J	Peaking, 22μH	AB
L3505	VPCNN220J2R9NY	J	Peaking, 22μH	AB
L3506	VPCNN220J2R9NY	J	Peaking, 22μH	AB
L3515	VPCNN220J2R9NY	J	Peaking, 22μH	AB
L3701	VPCUN470K2R0NY	J	Peaking, 47μH	AB
L4001	RCiLFA051WJZZY	J	Coil (DV-HR480S/HR480H /HR450S/HR450H)	AH
L4003	VPAWM100J2R6NY	J	Peaking, 10μH (DV-HR480S/HR480H /HR450S/HR450H)	AB
L4004	VPCNN100J1R6NY	J	Peaking, 10μH (DV-HR480S/HR480H /HR450S/HR450H)	AB
L7502	VPCUN470K2R0NY	J	Peaking, 47μH	AB

CAPACITORS

Ref. No.	Part No.	★	Description	Code
C3005	VCKYCZ1AF104ZY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C3007	VCKYCZ1AF104ZY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C3009	VCKYCZ1AF104ZY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C3010	VCEAPF1CW106MY	J	10 16V Electrolytic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C3011	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3012	VCEAPF1CW106MY	J	10 16V Electrolytic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C3013	VCKYCZ1AF104ZY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C3014	VCEAPF1CW106MY	J	10 16V Electrolytic	AB
C3015	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3016	VCEAPF0JW226MY	J	22 6.3V Electrolytic	AB
C3017	VCEAPF1HW225MY	J	2.2 50V Electrolytic	AB
C3018	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3020	VCEAPF1CW106MY	J	10 16V Electrolytic	AB
C3021	VCEAPF1CW106MY	J	10 16V Electrolytic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C3022	VCEAPF1CW106MY	J	10 16V Electrolytic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C3024	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3025	VCEAPF1CW106MY	J	10 16V Electrolytic	AB
C3030	VCCCCZ1HH101JY	J	100p 50V Ceramic	AB
C3034	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3036	VCEAPF0JW227MY	J	220 6.3V Electrolytic	AD
C3037	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3038	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3040	VCEAPF0JW227MY	J	220 6.3V Electrolytic	AD

DUNTKD053TE6C(DV-HR450S)
DUNTKD053TE6D(DV-HR480S)
DUNTKD053TE6E(DV-HR450H)
DUNTKD053TE6F(DV-HR480H)
DUNTKD054TE6B(DV-HR400S)
DUNTKD054TE6C(DV-HR400H)
MAIN PWB UNIT(Continued)

Ref. No.	Part No.	★	Description	Code
C3042	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3043	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3044	VCEAPF0JW227MY	J	220 6.3V Electrolytic	AD
C3051	VCCCCZ1HH150JY	J	15p 50V Ceramic	AB
C3052	VCCCCZ1HH150JY	J	15p 50V Ceramic	AB
C3053	VCEAPF0JW476MY	J	47 6.3V Electrolytic (DV-HR400S/HR400H)	AB
C3509	VCKYCZ1AB104KY	J	0.1 10V Ceramic	AB
C3510	VCEAPF1CW476MY	J	47 16V Electrolytic	AC
C3511	VCCCCZ1HH120JY	J	12p 50V Ceramic	AB
C3512	VCCCCZ1HH100DY	J	10p 50V Ceramic	AB
C3513	VCCCCZ1HH120JY	J	12p 50V Ceramic	AB
C3519	VCCCCZ1HH270JY	J	27p 50V Ceramic	AB
C3520	VCCCCZ1HH100DY	J	10p 50V Ceramic	AB
C3521	VCCCCZ1HH270JY	J	27p 50V Ceramic	AB
C3522	VCCCCZ1HH100DY	J	10p 50V Ceramic	AB
C3527	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB
C3530	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3531	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3532	VCCCCY1HH160JY	J	16p 50V Ceramic	AA
C3533	VCCCCY1HH180JY	J	18p 50V Ceramic	AA
C3534	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3535	VCKYCZ1AB104KY	J	0.1 10V Ceramic	AB
C3536	VCKYCZ1AB104KY	J	0.1 10V Ceramic	AB
C3537	VCKYCY0JB105KY	J	1 6.3V Ceramic	AC
C3538	VCKYCZ1AB104KY	J	0.1 10V Ceramic	AB
C3539	VCKYCZ1AB104KY	J	0.1 10V Ceramic	AB
C3540	VCKYCY0JB105KY	J	1 6.3V Ceramic	AC
C3541	VCKYCZ1AB104KY	J	0.1 10V Ceramic	AB
C3542	VCKYCZ1AB104KY	J	0.1 10V Ceramic	AB
C3543	VCKYCY0JB105KY	J	1 6.3V Ceramic	AC
C3544	VCEAPF0JW226MY	J	22 6.3V Electrolytic	AB
C3545	VCKYCZ1HB471KY	J	470p 50V Ceramic	AB
C3546	RC-KZA069WJZZY	J	4.7	AB
C3548	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3549	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3559	VCKYCY0JB105KY	J	1 6.3V Ceramic	AC
C3560	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3561	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3565	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3566	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3567	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3568	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3570	VCCCCZ1HH100DY	J	10p 50V Ceramic	AB
C3571	VCCCCZ1HH100DY	J	10p 50V Ceramic	AB
C3572	VCCCCZ1HH120JY	J	12p 50V Ceramic	AB
C3573	VCCCCZ1HH120JY	J	12p 50V Ceramic	AB
C3574	VCCCCZ1HH270JY	J	27p 50V Ceramic	AB
C3575	VCCCCZ1HH270JY	J	27p 50V Ceramic	AB
C3608	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3701	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3702	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB
C3703	VCEAPF1CW106MY	J	10 16V Electrolytic	AB
C3704	VCKYCZ1AB104KY	J	0.1 10V Ceramic	AB
C3705	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3706	VCKYCZ1AB104KY	J	0.1 10V Ceramic	AB
C3707	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3708	VCEAPF0JW107MY	J	100 6.3V Electrolytic	AC
C3709	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C3710	VCEAPF0JW107MY	J	100 6.3V Electrolytic	AC
C3711	VCKYCZ1AB104KY	J	0.1 10V Ceramic	AB
C3712	VCKYCZ1HB821KY	J	820p 50V Ceramic	AA
C3713	VCKYCZ1HB392KY	J	3900p 50V Ceramic	AA
C3714	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C4001	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4002	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4003	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4004	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4006	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4007	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4009	VCKYCY0JB105KY	J	1 6.3V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AC
C4010	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4011	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4012	VCKYCZ1HB271KY	J	270p 50V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AC
C4017	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4018	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4019	VCCCCZ1HH100DY	J	10p 50V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4020	VCCCCZ1HH100DY	J	10p 50V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4021	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4024	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4025	VCEAPF0JW476MY	J	47 6.3V Electrolytic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4027	VCEAPF0JW476MY	J	47 6.3V Electrolytic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4029	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4030	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4032	VCEAPF0JW476MY	J	47 6.3V Electrolytic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4034	VCCCCZ1HH330JY	J	33p 50V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4035	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4037	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4038	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4039	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4040	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB

Ref. No.	Part No.	★	Description	Code
	DUNTKD053TE6C(DV-HR450S) DUNTKD053TE6D(DV-HR480S) DUNTKD053TE6E(DV-HR450H) DUNTKD053TE6F(DV-HR480H) DUNTKD054TE6B(DV-HR400S) DUNTKD054TE6C(DV-HR400H) MAIN PWB UNIT(Continued)			
C4041	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4042	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4043	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4044	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4045	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4046	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4047	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4048	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4049	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4050	VCEAPF1EW475MY	J	4.7 25V Electrolytic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4051	VCKYCY1EB473KY	J	0.047 25V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AA
C4052	VCEAPF1CW106MY	J	10 16V Electrolytic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4053	VCEAPF1CW106MY	J	10 16V Electrolytic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4054	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4055	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4056	VCKYCZ1HB222KY	J	2200p 50V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4057	VCKYCY0JB105KY	J	1 6.3V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AC
C4058	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4059	VCKYCZ1HB222KY	J	2200p 50V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4061	VCKYCZ1AB104KY	J	0.1 10V Ceramic (DV-HR480S/HR480H /HR450S/HR450H)	AB
C4605	VCKYCZ1HB222KY	J	2200p 50V Ceramic	AB
C4606	VCKYCZ1HB222KY	J	2200p 50V Ceramic	AB
C4608	VCKYCZ1HB222KY	J	2200p 50V Ceramic	AB
C4609	VCKYCZ1HB222KY	J	2200p 50V Ceramic	AB
C4611	VCKYCZ1AB104KY	J	0.1 10V Ceramic	AB
C4612	VCKYCZ1AB104KY	J	0.1 10V Ceramic	AB
C4613	VCKYCZ1AB104KY	J	0.1 10V Ceramic	AB
C4614	VCKYCZ1AB104KY	J	0.1 10V Ceramic	AB
C4620	VCKYCZ1AB104KY	J	0.1 10V Ceramic	AB
C4621	VCKYCZ1AB104KY	J	0.1 10V Ceramic	AB

Ref. No.	Part No.	★	Description	Code
C7503	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C7509	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C7511	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C7513	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C7515	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C7518	VCKYCZ1EB103KY	J	0.01 25V Ceramic	AA
C7519	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C7521	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C7523	VCKYCZ1EB103KY	J	0.01 25V Ceramic	AA
C7525	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C7527	VCKYCZ1EB103KY	J	0.01 25V Ceramic	AA
C7529	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C7531	VCKYCZ1HB102KY	J	1000p 50V Ceramic	AB
C7532	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C7534	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C7535	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C7536	VCEAPF0JW227MY	J	220 6.3V Electrolytic	AD
C7537	VCKYCZ1AB104KY	J	0.1 10V Ceramic	AB
C7538	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C7539	VCKYCY0JB105KY	J	1 6.3V Ceramic	AC
C7541	VCAAPD0JJ127MY	J	120 6.3V Electrolytic	AF
C7542	VCEAPF1CW106MY	J	10 16V Electrolytic	AB
C7543	VCKYCY0JB105KY	J	1 6.3V Ceramic	AC
C7544	VCKYCZ1AF104ZY	J	0.1 10V Ceramic	AB
C7545	VCKYCZ1EB103KY	J	0.01 25V Ceramic	AA
C7546	VCKYCZ1HB102KY	J	1000p 50V Ceramic	AB
C7550	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB
C7811	VCAAPD0JJ476MY	J	47 6.3V Electrolytic (DV-HR480S/HR480H /HR450S/HR450H)	AE

RESISTORS

Ref. No.	Part No.	★	Description	Code
FB3002	VRS-CY1JF270JY	J	27 1/16W Metal Oxide	AA
R3001	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3002	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3003	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3004	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3005	VRS-CZ1JF105JY	J	1M 1/16W Metal Oxide	AA
R3007	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3008	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3009	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3010	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3011	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3013	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3014	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3017	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R3018	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R3019	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R3020	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R3021	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R3022	VRS-CZ1JF123JY	J	12k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R3023	VRS-CZ1JF562JY	J	5.6k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R3024	VRS-CZ1JF471JY	J	470 1/16W Metal Oxide	AA
R3025	VRS-CZ1JF123JY	J	12k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R3026	VRS-CZ1JF562JY	J	5.6k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R3033	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3035	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3036	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA

DUNTKD053TE6C(DV-HR450S)
DUNTKD053TE6D(DV-HR480S)
DUNTKD053TE6E(DV-HR450H)
DUNTKD053TE6F(DV-HR480H)
DUNTKD054TE6B(DV-HR400S)
DUNTKD054TE6C(DV-HR400H)
MAIN PWB UNIT(Continued)

Ref. No.	Part No.	★	Description	Code
R3040	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R3057	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3060	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3063	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide	AA
R3066	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide	AA
R3069	VRS-CZ1JF333JY	J	33k 1/16W Metal Oxide	AA
R3070	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3071	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide	AA
R3073	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3074	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3075	VRS-CZ1JF333JY	J	33k 1/16W Metal Oxide	AA
R3076	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3077	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide	AA
R3078	VRS-CZ1JF333JY	J	33k 1/16W Metal Oxide	AA
R3080	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3081	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3083	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3085	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3086	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R3087	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R3088	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R3089	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R3090	VRS-CZ1JF270JY	J	27 1/16W Metal Oxide	AA
R3091	VRS-CZ1JF100JY	J	10 1/16W Metal Oxide	AA
R3092	VRS-CZ1JF100JY	J	10 1/16W Metal Oxide	AA
R3098	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R3099	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3106	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide	AA
R3108	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3109	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3110	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3111	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3113	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R3119	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3121	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3123	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3125	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3126	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3127	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3128	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3129	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3130	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3131	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3132	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3148	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3149	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide	AA
R3150	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R3151	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R3153	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide	AA
R3507	VRS-CZ1JF182JY	J	1.8k 1/16W Metal Oxide	AA
R3509	VRS-CZ1JF182JY	J	1.8k 1/16W Metal Oxide	AA
R3511	VRS-CZ1JF911JY	J	910 1/16W Metal Oxide	AA
R3512	VRS-CZ1JF101JY	J	100 1/16W Metal Oxide	AA
R3513	VRS-CZ1JF911JY	J	910 1/16W Metal Oxide	AA
R3514	VRS-CZ1JF101JY	J	100 1/16W Metal Oxide	AA
R3515	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R3516	VRS-CZ1JF102DY	J	1k 1/16W Metal Oxide	AA
R3518	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R3519	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3520	VRS-CZ1JF391JY	J	390 1/16W Metal Oxide	AA
R3522	VRS-CZ1JF102DY	J	1k 1/16W Metal Oxide	AA
R3523	VRS-CZ1JF391JY	J	390 1/16W Metal Oxide	AA
R3524	VRS-CZ1JF391JY	J	390 1/16W Metal Oxide	AA
R3527	VRS-CZ1JF391JY	J	390 1/16W Metal Oxide	AA
R3529	VRS-CZ1JF105JY	J	1M 1/16W Metal Oxide	AA
R3530	VRS-CZ1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R3532	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3536	VRS-CZ1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R3537	VRS-CZ1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R3539	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3540	VRS-CZ1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R3541	VRS-CZ1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R3542	VRK-CD1JJ330JY	J	33 1/16W Metal Composition	AC
R3560	VRS-CZ1JF152JY	J	1.5k 1/16W Metal Oxide	AA
R3562	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide	AA
R3563	VRS-CZ1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R3564	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide	AA
R3565	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide	AA
R3566	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide	AA
R3567	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide	AA
R3570	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide	AA
R3571	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3574	VRS-CZ1JF100JY	J	10 1/16W Metal Oxide	AA
R3575	VRS-CZ1JF101JY	J	100 1/16W Metal Oxide	AA
R3576	VRS-CZ1JF101JY	J	100 1/16W Metal Oxide	AA
R3577	VRS-CZ1JF391JY	J	390 1/16W Metal Oxide	AA
R3578	VRS-CZ1JF391JY	J	390 1/16W Metal Oxide	AA
R3579	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3580	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3584	VRS-CZ1JF182JY	J	1.8k 1/16W Metal Oxide	AA
R3585	VRS-CZ1JF182JY	J	1.8k 1/16W Metal Oxide	AA
R3586	VRS-CZ1JF911JY	J	910 1/16W Metal Oxide	AA
R3587	VRS-CZ1JF911JY	J	910 1/16W Metal Oxide	AA
R3590	VRS-CZ1JF391JY	J	390 1/16W Metal Oxide	AA
R3591	VRS-CZ1JF391JY	J	390 1/16W Metal Oxide	AA
R3592	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R3593	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R3614	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R3701	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R3702	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R3703	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R3704	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R3705	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R3706	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R3707	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R3708	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R3709	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R3710	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R3711	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R3712	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R3713	VRS-CZ1JF102DY	J	1k 1/16W Metal Oxide	AA
R3714	VRS-CZ1JF102DY	J	1k 1/16W Metal Oxide	AA
R3715	VRS-CZ1JF393DY	J	39k 1/16W Metal Oxide	AA
R3717	VRS-CZ1JF473DY	J	47k 1/16W Metal Oxide	AA
R3718	VRS-CZ1JF332DY	J	3.3k 1/16W Metal Oxide	AA
R3719	VRS-CZ1JF332DY	J	3.3k 1/16W Metal Oxide	AA
R3720	VRS-CZ1JF331DY	J	330 1/16W Metal Oxide	AA
R3721	VRS-CZ1JF332DY	J	3.3k 1/16W Metal Oxide	AA
R3722	VRS-CZ1JF331DY	J	330 1/16W Metal Oxide	AA
R3723	VRS-CZ1JF332DY	J	3.3k 1/16W Metal Oxide	AA
R3724	VRS-CZ1JF331DY	J	330 1/16W Metal Oxide	AA
R3725	VRS-CZ1JF332DY	J	3.3k 1/16W Metal Oxide	AA
R3726	VRS-CZ1JF331DY	J	330 1/16W Metal Oxide	AA
R3727	VRS-CZ1JF332DY	J	3.3k 1/16W Metal Oxide	AA
R3728	VRS-CZ1JF331DY	J	330 1/16W Metal Oxide	AA
R3729	VRS-CZ1JF332DY	J	3.3k 1/16W Metal Oxide	AA
R3730	VRS-CZ1JF331DY	J	330 1/16W Metal Oxide	AA
R3731	VRS-CZ1JF393DY	J	39k 1/16W Metal Oxide	AA
R3732	VRS-CZ1JF332DY	J	3.3k 1/16W Metal Oxide	AA
R3733	VRS-CZ1JF681JY	J	680 1/16W Metal Oxide	AA
R3734	VRS-CZ1JF681JY	J	680 1/16W Metal Oxide	AA
R3735	VRS-CZ1JF101JY	J	100 1/16W Metal Oxide	AA
R3736	VRS-CZ1JF101JY	J	100 1/16W Metal Oxide	AA
R3737	VRS-CZ1JF681JY	J	680 1/16W Metal Oxide	AA
R3738	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA

DUNTKD053TE6C(DV-HR450S)
DUNTKD053TE6D(DV-HR480S)
DUNTKD053TE6E(DV-HR450H)
DUNTKD053TE6F(DV-HR480H)
DUNTKD054TE6B(DV-HR400S)
DUNTKD054TE6C(DV-HR400H)
MAIN PWB UNIT(Continued)

Ref. No.	Part No.	★	Description	Code
R3740	VRS-CZ1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R3741	VRS-CZ1JF681JY	J	680 1/16W Metal Oxide	AA
R3742	VRS-CZ1JF681JY	J	680 1/16W Metal Oxide	AA
R3743	VRS-CZ1JF681JY	J	680 1/16W Metal Oxide	AA
R3744	VRS-CZ1JF681JY	J	680 1/16W Metal Oxide	AA
R3745	VRS-CZ1JF681JY	J	680 1/16W Metal Oxide	AA
R3751	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R4002	VRS-TV1JD000JY	J	0 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4006	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4007	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4013	VRS-CY1JF560FY	J	56 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4014	VRS-CY1JF560FY	J	56 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4015	VRS-CY1JF512FY	J	5.1k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4016	VRS-CY1JF560FY	J	56 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4017	VRS-CY1JF560FY	J	56 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4018	VRS-CY1JF912FY	J	9.1k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4020	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4021	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4022	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4023	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4025	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4026	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4027	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4028	VRK-CD1JJ333JY	J	33k 1/16W Metal Composition (DV-HR480S/HR480H /HR450S/HR450H)	AC
R4036	VRK-CD1JJ333JY	J	33k 1/16W Metal Composition (DV-HR480S/HR480H /HR450S/HR450H)	AC
R4044	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4046	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4047	VRS-CZ1JF101JY	J	100 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4048	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4049	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4051	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4052	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4053	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4054	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4056	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4058	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4059	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4060	VRS-CZ1JF102JY	J	1k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4062	VRK-CD1JJ333JY	J	33k 1/16W Metal Composition (DV-HR480S/HR480H /HR450S/HR450H)	AC
R4082	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4084	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4086	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4088	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4089	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4092	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4094	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4095	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4097	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4100	VRK-CD1JJ333JY	J	33k 1/16W Metal Composition (DV-HR480S/HR480H /HR450S/HR450H)	AC
R4117	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4118	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4122	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4124	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA

DUNTKD053TE6C(DV-HR450S)
DUNTKD053TE6D(DV-HR480S)
DUNTKD053TE6E(DV-HR450H)
DUNTKD053TE6F(DV-HR480H)
DUNTKD054TE6B(DV-HR400S)
DUNTKD054TE6C(DV-HR400H)
MAIN PWB UNIT(Continued)

Ref. No.	Part No.	★	Description	Code
R4125	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4126	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4127	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4128	VRK-CD1JJ333JY	J	33k 1/16W Metal Composition (DV-HR480S/HR480H /HR450S/HR450H)	AC
R4136	VRK-CD1JJ333JY	J	33k 1/16W Metal Composition (DV-HR480S/HR480H /HR450S/HR450H)	AC
R4144	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4145	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4146	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4148	VRS-CZ1JF101JY	J	100 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4149	VRS-CZ1JF823JY	J	82k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4150	VRS-CZ1JF153JY	J	15k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4151	VRS-CZ1JF101JY	J	100 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4153	VRS-CZ1JF154JY	J	150k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4154	VRS-CZ1JF334JY	J	330k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4155	VRS-CZ1JF821JY	J	820 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4157	VRS-CZ1JF821JY	J	820 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4158	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4159	VRS-CZ1JF823JY	J	82k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4161	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4163	VRS-CZ1JF823JY	J	82k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4165	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4166	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4167	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4168	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R4170	VRK-CD1JJ101JY	J	100 1/16W Metal Composition (DV-HR480S/HR480H /HR450S/HR450H)	AC
R4501	VRS-CZ1JF471JY	J	470 1/16W Metal Oxide	AA
R4502	VRS-CZ1JF471JY	J	470 1/16W Metal Oxide	AA
R4505	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide	AA
R4506	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide	AA
R4507	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide	AA
R4508	VRS-CZ1JF562JY	J	5.6k 1/16W Metal Oxide	AA
R4509	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide	AA
R4510	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4512	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4513	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4514	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4515	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4516	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4517	VRS-CZ1JF820JY	J	82 1/16W Metal Oxide	AA
R4518	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide	AA
R4519	VRS-CZ1JF102JY	J	1k 1/16W Metal Oxide	AA
R4520	VRS-CZ1JF820JY	J	82 1/16W Metal Oxide	AA
R4521	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide	AA
R4522	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide	AA
R4523	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide	AA
R4524	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4525	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4526	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4527	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4528	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4529	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4530	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4531	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4532	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4533	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4534	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4535	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4536	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4537	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4538	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4539	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4540	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4541	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4542	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4543	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4544	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4545	VRS-CZ1JF820JY	J	82 1/16W Metal Oxide	AA
R4546	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide	AA
R4547	VRS-CZ1JF102JY	J	1k 1/16W Metal Oxide	AA
R4548	VRS-CZ1JF820JY	J	82 1/16W Metal Oxide	AA
R4549	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide	AA
R4550	VRS-CZ1JF220JY	J	22 1/16W Metal Oxide	AA
R4551	VRS-CZ1JF820JY	J	82 1/16W Metal Oxide	AA
R4552	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4553	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4554	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4555	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4556	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4557	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4558	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA

DUNTKD053TE6C(DV-HR450S)
DUNTKD053TE6D(DV-HR480S)
DUNTKD053TE6E(DV-HR450H)
DUNTKD053TE6F(DV-HR480H)
DUNTKD054TE6B(DV-HR400S)
DUNTKD054TE6C(DV-HR400H)
MAIN PWB UNIT(Continued)

Ref. No.	Part No.	★	Description	Code
R4559	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4560	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4561	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4562	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4563	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4564	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4565	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4566	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4567	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R4568	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R4571	VRS-CZ1JF221JY	J	220 1/16W Metal Oxide	AA
R4572	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R4573	VRS-CZ1JF221JY	J	220 1/16W Metal Oxide	AA
R4574	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R4575	VRS-CZ1JF562JY	J	5.6k 1/16W Metal Oxide	AA
R4576	VRK-CD1JJ330JY	J	33 1/16W Metal Composition (DV-HR480S/HR480H /HR450S/HR450H)	AC
R4577	VRK-CD1JJ330JY	J	33 1/16W Metal Composition (DV-HR480S/HR480H /HR450S/HR450H)	AC
R4578	VRK-CD1JJ330JY	J	33 1/16W Metal Composition (DV-HR480S/HR480H /HR450S/HR450H)	AC
R4592	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R4593	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R4594	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R4605	VRS-CZ1JF102DY	J	1k 1/16W Metal Oxide	AA
R4606	VRS-CZ1JF102DY	J	1k 1/16W Metal Oxide	AA
R4629	VRS-CZ1JF271JY	J	270 1/16W Metal Oxide	AA
R4630	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4631	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4632	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4633	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4634	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4635	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4636	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4637	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4638	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4639	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4640	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4641	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4642	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4643	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4644	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4645	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4646	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4647	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4648	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4649	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4650	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4651	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4652	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4653	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4654	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4655	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4656	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4657	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4658	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4659	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4660	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4661	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4662	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4663	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4664	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4665	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4666	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4667	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4668	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4669	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4670	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4671	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4672	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4673	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4674	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4675	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4676	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4677	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4678	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4679	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4680	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4681	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4682	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4683	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4684	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4685	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4686	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4687	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4688	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4689	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4690	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R4691	VRS-CZ1JF470JY	J	47 1/16W Metal Oxide	AA
R7507	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7509	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7510	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7511	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7512	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7520	VRS-CZ1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R7521	VRS-CZ1JF102DY	J	1k 1/16W Metal Oxide	AA
R7522	VRS-CZ1JF101DY	J	100 1/16W Metal Oxide	AA
R7523	VRS-CZ1JF101DY	J	100 1/16W Metal Oxide	AA
R7524	VRS-CZ1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R7525	VRS-CZ1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R7527	VRS-CZ1JF681JY	J	680 1/16W Metal Oxide	AA
R7528	VRS-CZ1JF272DY	J	2.7k 1/16W Metal Oxide	AB
R7530	VRS-CZ1JF221DY	J	220 1/16W Metal Oxide	AA
R7531	VRS-CZ1JF681JY	J	680 1/16W Metal Oxide	AA
R7532	VRS-CZ1JF272DY	J	2.7k 1/16W Metal Oxide	AB
R7533	VRS-CZ1JF221DY	J	220 1/16W Metal Oxide	AA
R7534	VRS-CZ1JF681JY	J	680 1/16W Metal Oxide	AA
R7535	VRS-CZ1JF272DY	J	2.7k 1/16W Metal Oxide	AB
R7536	VRS-CZ1JF221DY	J	220 1/16W Metal Oxide	AA
R7537	VRS-CZ1JF272DY	J	2.7k 1/16W Metal Oxide	AB
R7539	VRS-CZ1JF221DY	J	220 1/16W Metal Oxide	AA
R7540	VRS-CZ1JF681JY	J	680 1/16W Metal Oxide	AA
R7541	VRS-CZ1JF272DY	J	2.7k 1/16W Metal Oxide	AB
R7542	VRS-CZ1JF221DY	J	220 1/16W Metal Oxide	AA
R7543	VRS-CZ1JF681JY	J	680 1/16W Metal Oxide	AA
R7544	VRS-CZ1JF272DY	J	2.7k 1/16W Metal Oxide	AB
R7546	VRS-CZ1JF221DY	J	220 1/16W Metal Oxide	AA
R7547	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7548	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7549	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7550	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7551	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7552	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7553	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7554	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7555	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7556	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7557	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7558	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7559	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7560	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7561	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7562	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7563	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA

DUNTKD053TE6C(DV-HR450S)
DUNTKD053TE6D(DV-HR480S)
DUNTKD053TE6E(DV-HR450H)
DUNTKD053TE6F(DV-HR480H)
DUNTKD054TE6B(DV-HR400S)
DUNTKD054TE6C(DV-HR400H)
MAIN PWB UNIT(Continued)

Ref. No.	Part No.	★	Description	Code
R7564	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7565	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7566	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7567	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7568	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7570	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7572	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7578	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7579	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7580	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7581	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7582	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7583	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7586	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7588	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7590	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7594	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7598	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7599	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7600	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7601	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7602	VRS-CZ1JF222JY	J	2.2k 1/16W Metal Oxide	AA
R7603	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7604	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7605	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7606	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7607	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7608	VRS-CZ1JF562DY	J	5.6k 1/16W Metal Oxide	AA
R7609	VRS-CZ1JF681DY	J	680 1/16W Metal Oxide	AB
R7610	VRS-CZ1JF681DY	J	680 1/16W Metal Oxide	AB
R7611	VRS-CZ1JF562DY	J	5.6k 1/16W Metal Oxide	AA
R7614	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7615	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7617	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7619	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide	AA
R7629	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7630	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7631	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7632	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7633	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7634	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7635	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7636	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7637	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7640	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7641	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7642	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7643	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7644	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7645	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7646	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7647	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7648	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7649	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7654	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7655	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7656	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7657	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7659	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7660	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7662	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7663	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7670	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7671	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7672	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7673	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7674	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7675	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7676	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7677	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7678	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7679	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7680	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7681	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7682	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7683	VRS-CZ1JF102DY	J	1k 1/16W Metal Oxide	AA
R7684	VRS-CZ1JF471DY	J	470 1/16W Metal Oxide	AA
R7685	VRS-CZ1JF000JY	J	0 1/16W Metal Oxide	AA
R7686	VRS-CZ1JF102DY	J	1k 1/16W Metal Oxide	AA
R7689	VRS-CZ1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R7690	VRS-CZ1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R7693	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide	AA
R7696	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7697	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7700	VRS-CZ1JF103JY	J	10k 1/16W Metal Oxide	AA
R7707	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7708	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7709	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7710	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7711	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7712	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7713	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7714	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7715	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7716	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7717	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7718	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7719	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7720	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7721	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7722	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7723	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7724	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7725	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7726	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7727	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7728	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7729	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7730	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7731	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7732	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7733	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7734	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7735	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7736	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7737	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R7739	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R7740	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R7741	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R7743	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R7744	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R7745	VRS-CZ1JF102JY	J	1k 1/16W Metal Oxide	AA
R7746	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7747	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7748	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7749	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide	AA
R7750	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR480S/HR480H /HR450S/HR450H)	AA
R7750	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R7751	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R7752	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R7753	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R7754	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R7755	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR400S/HR400H)	AA

DUNTKD053TE6C(DV-HR450S)
DUNTKD053TE6D(DV-HR480S)
DUNTKD053TE6E(DV-HR450H)
DUNTKD053TE6F(DV-HR480H)
DUNTKD054TE6B(DV-HR400S)
DUNTKD054TE6C(DV-HR400H)
MAIN PWB UNIT(Continued)

Ref. No.	Part No.	★	Description	Code
R7756	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R7757	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R7758	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R7759	VRS-CZ1JF473JY	J	47k 1/16W Metal Oxide (DV-HR400S/HR400H)	AA
R7760	VRS-CZ1JF330JY	J	33 1/16W Metal Oxide (DV-HR400S/HR400H)	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
CN3001	QSOCN2736TAZZY	J	Socket, 27Pin	AG
CN3002	QPLGN0053CEZZY	J	Plug, 3Pin	AD
CN3003	QSOCN2136TAZZY	J	Socket, 21Pin	AE
CN3004	QPLGN1264TAZZY	J	Plug, 12Pin	AE
CN4002	QPLGN0564TAZZY	J	Plug, 5Pin (DV-HR480S/HR480H /HR450S/HR450H)	AC
CN4501	QSOCN0492FJZZY	J	Socket, 40Pin,(HDD)	AF
CN4502	QSOCN0492FJZZY	J	Socket, 40Pin,(DVD PCC)	AF
CN4506	QPLGN1074TAZZY	J	Plug, 10Pin	AD
FB3003	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB3011	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB3012	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB3013	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB3014	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB3015	RBLN-0252TAZZY	J	Balun, BLN-0252TA (DV-HR480S/HR480H /HR450S/HR450H)	AA
FB3016	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB3017	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB3018	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB3019	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB3021	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB3022	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB3023	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB3027	RBLN-0086GEZZY	J	Balun, BLN-0086GE	AB
FB3029	RBLN-0086GEZZY	J	Balun, BLN-0086GE	AB
FB3030	RBLN-0086GEZZY	J	Balun, BLN-0086GE	AB
FB3031	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB3032	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB3033	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB3034	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB3035	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB3036	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB3037	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB3040	RBLN-0253TAZZY	J	Balun, BLN-0253TA (DV-HR480S/HR480H /HR450S/HR450H)	AA
FB3041	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB3042	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB3043	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB3046	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB3501	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB3502	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB3503	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB3504	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB3506	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB3701	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB3703	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB3704	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB4001	RBLN-A001WJZZY	J	Balun, BLN-A001WJ (DV-HR480S/HR480H /HR450S/HR450H)	AA
FB4002	RBLN-A001WJZZY	J	Balun, BLN-A001WJ (DV-HR480S/HR480H /HR450S/HR450H)	AA
FB4003	RBLN-A001WJZZY	J	Balun, BLN-A001WJ (DV-HR480S/HR480H /HR450S/HR450H)	AA
FB4004	RBLN-0252TAZZY	J	Balun, BLN-0252TA (DV-HR480S/HR480H /HR450S/HR450H)	AA
FB4007	RBLN-0252TAZZY	J	Balun, BLN-0252TA (DV-HR480S/HR480H /HR450S/HR450H)	AA
FB4008	RBLN-0252TAZZY	J	Balun, BLN-0252TA (DV-HR480S/HR480H /HR450S/HR450H)	AA
FB4009	RBLN-0252TAZZY	J	Balun, BLN-0252TA (DV-HR480S/HR480H /HR450S/HR450H)	AA
FB4011	RBLN-A001WJZZY	J	Balun, BLN-A001WJ (DV-HR480S/HR480H /HR450S/HR450H)	AA
FB4012	RBLN-A001WJZZY	J	Balun, BLN-A001WJ (DV-HR480S/HR480H /HR450S/HR450H)	AA
FB4013	RBLN-A001WJZZY	J	Balun, BLN-A001WJ (DV-HR480S/HR480H /HR450S/HR450H)	AA
FB4014	RBLN-A001WJZZY	J	Balun, BLN-A001WJ (DV-HR480S/HR480H /HR450S/HR450H)	AA
FB4015	RBLN-A001WJZZY	J	Balun, BLN-A001WJ (DV-HR480S/HR480H /HR450S/HR450H)	AA
FB4016	RBLN-A001WJZZY	J	Balun, BLN-A001WJ (DV-HR480S/HR480H /HR450S/HR450H)	AA
FB4017	RBLN-A001WJZZY	J	Balun, BLN-A001WJ (DV-HR480S/HR480H /HR450S/HR450H)	AA
FB4018	RBLN-A001WJZZY	J	Balun, BLN-A001WJ (DV-HR480S/HR480H /HR450S/HR450H)	AA
FB4019	RBLN-0255TAZZY	J	Balun, BLN-0255TA (DV-HR480S/HR480H /HR450S/HR450H)	AA
FB4501	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB4502	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB4503	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB4504	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB4505	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB4506	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB4507	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB4508	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB4509	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB4510	RBLN-0253TAZZY	J	Balun, BLN-0253TA	AA
FB7502	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB7503	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB7504	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB7505	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA
FB7506	RBLN-0252TAZZY	J	Balun, BLN-0252TA	AA

CABINET PARTS

Ref. No.	Part No.	★	Description	Code
1	CCABAA822TEV1	J	Top Cabinet Ass'y (DV-HR450S/HR450H /HR400S/HR400H)	
1	CCABAA822TEV2	J	Top Cabinet Ass'y (DV-HR480S/HR480H)	
2	GBDYUA099WJFW	J	Chassis Ass'y	AT
3	GCOVAB290WJZZ	J	Rear Panel (DV-HR400S/HR400H)	
3	GCOVAB291WJZZ	J	Rear Panel (DV-HR480S/HR480H /HR450S/HR450H)	
4	LANGFA115WJFW	J	HDD Ang.	AK
5	LANGFA116WJFW	J	Writer Ang.	AE
6	LANGFA056WJFW	J	Writer Ang.-R	AD
7	PSPAZA291WJZZ	J	HDD Ang.-Spacer	AB
8	PSPAZA290WJZZ	J	Writer Ang.-Spacer	AB
10	NFANRA036WJQZ	J	FAN	AQ
⚠ 12	QACCBA026WJPZ	J	AC Cord (DV-HR480H/HR450H /HR400H)	AT
⚠ 12	QACCVA010WJPZ	J	AC Cord (DV-HR480S/HR450S /HR400S)	AM
13	PGUMSA008WJZZ	J	Foot Rubber, x4	AB
15	Ci-OHA015TEV2	J	HDD 80GB (DV-HR400S/HR400H)	
15	Ci-OHA009TEV2	J	HDD 160GB (DV-HR450S/HR450H)	
15	Ci-OHA012TEV2	J	HDD 250GB (DV-HR480S/HR480H)	
16	DUNTKC801TEV1	-	Power PWB Unit	–
17	LANGFA121WJFW	J	Fan Ang.	AD
18	DSETV0199TEV8	-	Main PWB Unit (DV-HR400S)	–
18	DSETV0199TEV6	-	Main PWB Unit (DV-HR450S)	–
18	DSETV0199TEV7	-	Main PWB Unit (DV-HR480S)	–
18	DSETV0199TEV9	-	Main PWB Unit (DV-HR400H)	–
18	DSETV0199TEVB	-	Main PWB Unit (DV-HR450H)	–
18	DUNTKD053TE6F	-	Main PWB Unit (DV-HR480H)	–
19	DMECDA002TEV1	J	Writer Unit	
20	DUNTKC636TE6B	-	Lcd PWB Unit	–
21	DUNTKC803TEV1	-	Operation (R) PWB Unit	–
22	DUNTKC802TEV2	-	Operation (L) PWB Unit (DV-HR400S/HR400H)	–
22	DUNTKC802TEV1	-	Operation (L) PWB Unit (DV-HR480S/HR480H /HR450S/HR450H)	–
23	DUNTKC799TE6A	-	Sub PWB Unit (DV-HR480S/HR450S)	–
23	DUNTKC799TE6B	-	Sub PWB Unit (DV-HR480H/HR450H)	–
23	DUNTKC799TE6D	-	Sub PWB Unit (DV-HR400S)	–
23	DUNTKC799TE6E	-	Sub PWB Unit (DV-HR400H)	–
24	XHPS730P06WS0	J	Screw, x10	AA
25	XHPS730P16000	J	Screw, x2	
26	XHPS730P30XS0	J	Screw	AB
27	XHPSL30P14XS0	J	Screw, x2	AA
28	LX-HZ3099GEF7	J	Screw, x5	
29	LX-AZA003WJF7	J	Screw, x4	
30	MSPRCA021WJFW	J	Spring, x2	AA
31	HDECQA494WJSA	J	Tray Panel (DV-HR450S/HR450H /HR400S/HR400H)	
31	HDECQA494WJSB	J	Tray Panel (DV-HR480S/HR480H)	
32	XHPSL30P06WS0	J	Screw, x20	AA
33	XEPSN30P08000	J	Screw, x8	AA
34	LX-HZA014WJF8	J	Screw	AB
35	XHPSN30P05000	J	Screw	AA
36	LHLDZA397WJZZ	J	PWB Holder	AG
37	LHLDZA144WJZZ	J	Palette Pin Holder	AC
38	LHLDW1009CEZZ	J	Wire Holder	AA
39	PSHEPA120WJZZ	J	Insulation Sheet	AE
40	PSHEPA121WJZZ	J	Insulation Sheet	AC
41	DUNTKC805TEV1	-	UV Tuner PWB Unit	–
50	QCNCWA156WJZZ	J	HDD Connector	AQ
51	QCNW-D422WJZZ	J	Connecting Cord	
52	QCNW-C774WJZZ	J	Connecting Cord	AE
53	QCNW-C773WJZZ	J	Connecting Cord	AG
54	QCNW-C775WJZZ	J	Connecting Cord	AG
55	QCNW-C776WJZZ	J	Connecting Cord	AF
56	QCNW-C777WJZZ	J	Connecting Cord	AE
57	QCNW-C771WJZZ	J	Connecting Cord	AH
58	QCNW-C770WJZZ	J	Connecting Cord (DV-HR480S/HR480H /HR450S/HR450H)	AG
59	QCNW-D394WJPZ	J	Connecting Cord (DV-HR480S/HR480H /HR450S/HR450H)	
60	QCNW-D185WJZZ	J	Connecting Cord	
61	QCNW-D182WJZZ	J	Connecting Cord	
62	QCNW-D181WJZZ	J	Connecting Cord	
63	QCNW-D183WJZZ	J	Connecting Cord	
64	QCNW-D184WJZZ	J	Connecting Cord	
65	QCNW-D395WJPZ	J	Connecting Cord (DV-HR480S/HR480H /HR450S/HR450H)	
66	PSPAZA357WJZZ	J	Side Spacer, x2	AC
67	PSPAZA376WJZZ	J	Bottom Spacer	AC
68	PSLDMA211WJZZ	J	Spacer (DV-HR480S/HR480H /HR450S/HR400S/HR400H)	
69	PSLDMA470WJZZ	J	Spacer (DV-HR480S/HR480H /HR450S/HR400S/HR400H)	
70	QEARZA054WJZZ	J	Ground-Part (DV-HR480S/HR480H /HR450S/HR400S/HR400H)	AE
71	PSHEFA002WJZZ	J	Himeron Tape S, x4	AB
72	LX-HZ3096GEZZ	J	Screw, x2	AB
73	PSHEPA297WJZZ	J	Heat Cover Sheet	
74	HDECQA422WJSB	J	Tray Accent Dec. (DV-HR450S/HR450H /HR400S/HR400H)	
74	HDECQA422WJSC	J	Tray Accent Dec. (DV-HR480S/HR480H)	
75	LHLDZA301WJZZ	J	Tray Holder	AD
76	DUNTKC800TE6A	-	G-Link PWB Unit	–
77	LANGFA152WJFW	J	Jack Ang.	

FRONT PANEL PARTS

Ref. No.	Part No.	★	Description	Code
600	CPNLCA170TEV1	J	Front Panel Ass'y (DV-HR400S/HR400H)	
600	CPNLCA171TEV1	J	Front Panel Ass'y (DV-HR450S/HR450H)	
600	CPNLCA172TEV1	J	Front Panel Ass'y (DV-HR480S/HR480H)	
600-1	JBTN-A323WJSA	J	Button,Power	AE
600-2	JBTN-A324WJSA	J	Button,Eject	AE
600-3	HDECQA430WJSB	J	Decoration Plate (DV-HR450S/HR450H /HR400S/HR400H)	
600-3	HDECQA430WJSC	J	Decoration Plate (DV-HR480S/HR480H)	
600-4	HDECQA431WJSB	J	Decoration Plate (DV-HR450S/HR450H /HR400S/HR400H)	
600-4	HDECQA431WJSC	J	Decoration Plate (DV-HR480S/HR480H)	
600-5	JBTN-A322WJSA	J	Button,Operation	AF

FRONT PANEL PARTS (Continued)

Ref. No.	Part No.	★	Description	Code
600-6	JBTN-A321WJSA	J	Button,Operation	AF
600-7	HDECQA427WJSC	J	Decoration Plate (DV-HR450S/HR450H /HR400S/HR400H)	
600-7	HDECQA427WJSD	J	Decoration Plate (DV-HR480S/HR480H)	
600-8	JBTN-A213WJSE	J	Button,Reset	AC
600-9	HDECQA432WJSA	J	Decoration Plate	AC
600-10	HDECQA433WJSA	J	Decoration Plate	AC
600-11	HDECQA424WJSA	J	Decoration Plate	AC
600-12	GDORFA141WJSA	J	Door (DV-HR400S/HR400H)	
600-12	GDORFA142WJSA	J	Door (DV-HR450S/HR450H)	
600-12	GDORFA142WJSB	J	Door (DV-HR480S/HR480H)	
600-13	HDECQA423WJSA	J	Decoration Plate	AC
600-14	HDECQA434WJSA	J	Decoration Plate	AC
600-15	HDECQA442WJSA	J	Decoration Plate	AC
600-16	PSHEPA126WJZZ	J	Sheet	AF
600-17	PSHEPA223WJZZ	J	Sheet	AD
600-18	LHLDS1010AJZZ	J	Holder	AB

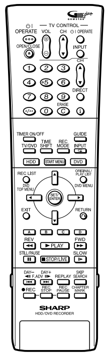
WRITER UNIT PARTS

Ref. No.	Part No.	★	Description	Code
401	CMECDA002TEV1	J	Traverse Mecha Ass'y	
402	DUNTKC573TEV1	J	Loading PWB Unit	–
403	QSOCNA180WJZZ	J	Loading PWB Connector	AC
404	QSW-BA001WJZZ	J	Loading Switch	AD
405	GCOVAA347WJSA	J	Tray	AH
406	LCHSMA145WJZZ	J	Loading Base	AL
407	LCRA-A003WJZZ	J	Cramper	AB
408	LHLDZA182WJZZ	J	Lifter	AF
409	LPLTMA004WJZZ	J	Plate	AC
412	MLEVPA006WJZZ	J	Tray Eject Lever	AB
413	MSLiPA001WJZZ	J	Shifter	AC
414	NBLTKA001WJZZ	J	Loading Belt	AC
415	NGERHA010WJZZ	J	Pully Gear	AB
416	NGERHA011WJZZ	J	Relay Gear	AC
417	NPLYMA001WJZZ	J	Motor Pully	AB
418	PCAPHA016WJZZ	J	Insulater Cap	AB
419	PCASZA014WJZZ	J	Upper Plate	AK
420	PCASZA011WJZZ	J	Bottom Plate	AF
423	PSPAZA261WJZZ	J	Spacer	AB
424	PSPAZA376WJZZ	J	Bottom Spacer	AC
425	QCNW-C589WJPZ	J	Loading Motor FFC	AD
426	RMOTVA003WJZZ	J	Loading Motor	AH
428	PCUSGA001WJZZ	J	Insulator	AC
429	DUNTKC501TE6C	-	Writer Main PWB Unit	–
430	TLABSA027WJZZ	J	LAZER Label	AB
431	LHLDZA430WJZZ	J	Cramper Holder	AG
a	LX-BZA033WJZZ	J	Screw, x2	AB
b	XJBS726P08000	J	Screw, x5	AA
c	LX-JZA001WJFN	J	Screw, x4	AB
d	LX-BZA070WJFN	J	Screw, x1 (for Upper Plate)	AA
e	XJBS726P08J00	J	Screw, x4	

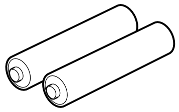
SUPPLIED ACCESSORIES

Ref. No.	Part No.	★	Description	Code
X1	RRMCGA375WJPA	J	Remote Control Unit	
X2	TiNS-B741WJZZ	J	Operation Manual (DV-HR480S/HR450S/ HR400S)	
X2	TiNS-B742WJZZ	J	Operation Manual (DV-HR480S/HR450S /HR400S)	
X3	TiNS-B743WJZZ	J	Operation Manual (DV-HR480S/HR450S /HR400S)	
X3	TiNS-B781WJZZ	J	Operation Manual (DV-HR480H/HR450H /HR400H)	
X3	TiNS-B782WJZZ	J	Operation Manual (DV-HR480H/HR450H /HR400H)	
X4	QCNW-B557WJPZ	J	AV Cable	AK
X5	QCNW-A003WJPZ	J	RF Cable	AF
X6	TGANEA006WJN1	-	Guarantee Card (DV-HR480H/HR450H /HR400H)	

X1

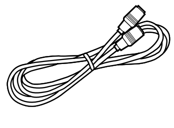


Remote control unit



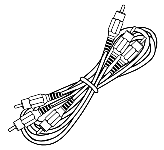
Two R-03 size batteries
("AAA" size, UM/SUM-4)
for the remote control unit

X5



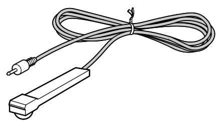
RF coaxial cable

X4



Video/audio cable

X

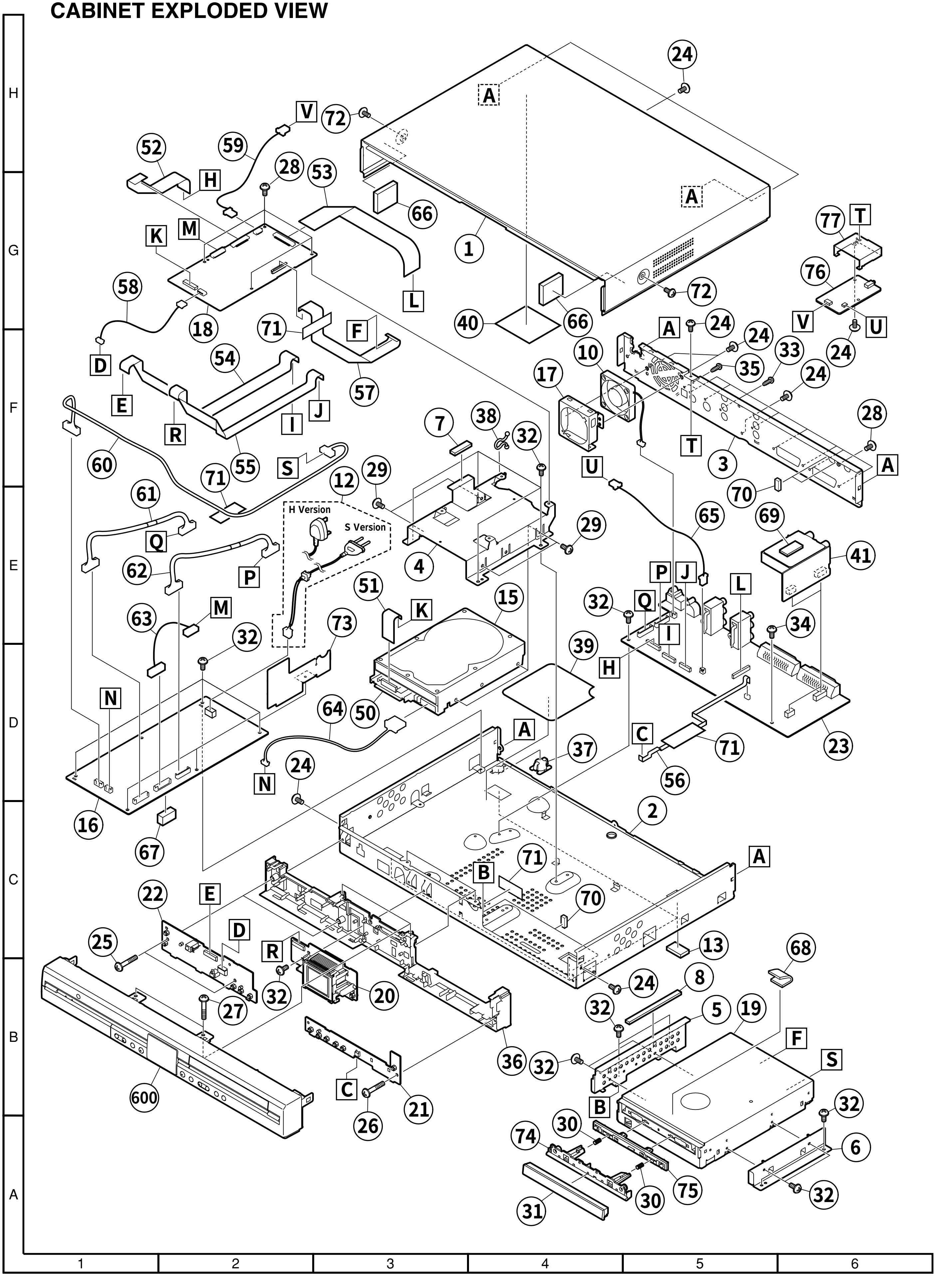


G-LINK cable

PACKING PARTS
(NOT REPLACEMENT ITEM)

Ref. No.	Part No.	★	Description	Code
S1	SPAKCB806WJZZ	-	Packing Case (DV-HR400S)	–
S1	SPAKCB867WJZZ	-	Packing Case (DV-HR400H)	–
S1	SPAKCB858WJZZ	-	Packing Case (DV-HR450S)	–
S1	SPAKCB859WJZZ	-	Packing Case (DV-HR450H)	–
S1	SPAKCB863WJZZ	-	Packing Case (DV-HR480S)	–
S1	SPAKCB865WJZZ	-	Packing Case (DV-HR480H)	–
S2	SPAKFA840WJZZ	-	Packing Material	–
S3	SPAKFA844WJZZ	-	 (DV-HR400H/DV-HR450H /DV-HR480H)	–
S4	SPAKPA399WJZZ	-	Wrapping Paper	–
	SPAKXA507WJZZ	-	Packing Add.	–
S5	SPAKXA778WJZZ	-	Packing Add. (DV-HR480S/HR450S/ HR400S)	–
S6	SSAKA0005PEZZ	-	Polyethylene Bag	–
S7	ZTAPEQ50-150E	-	 (DV-HR400H/DV-HR450H /DV-HR480H)	–

CABINET EXPLODED VIEW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7
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32
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S
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H Version
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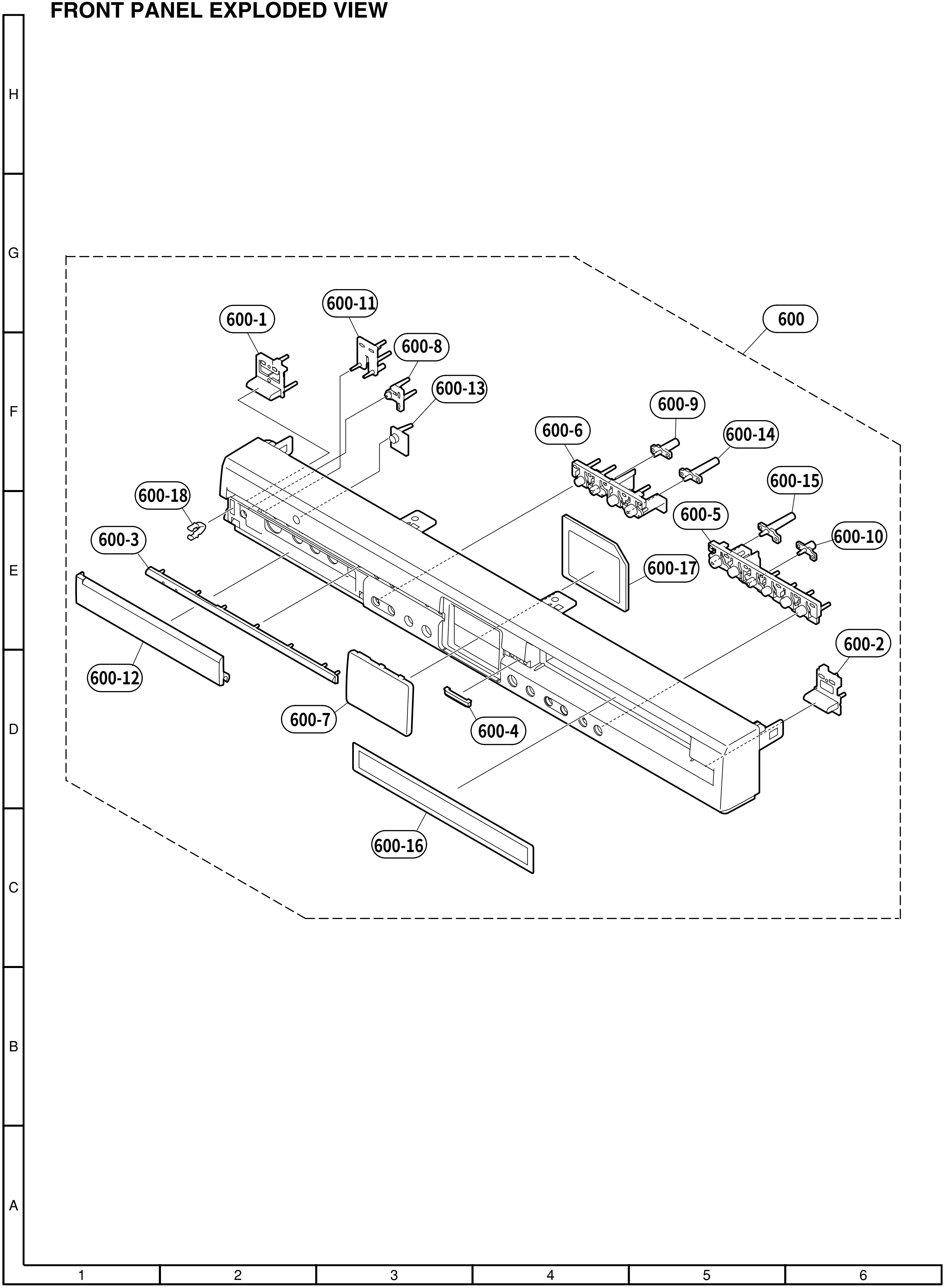
5
6

FRONT PANEL EXPLODED VIEW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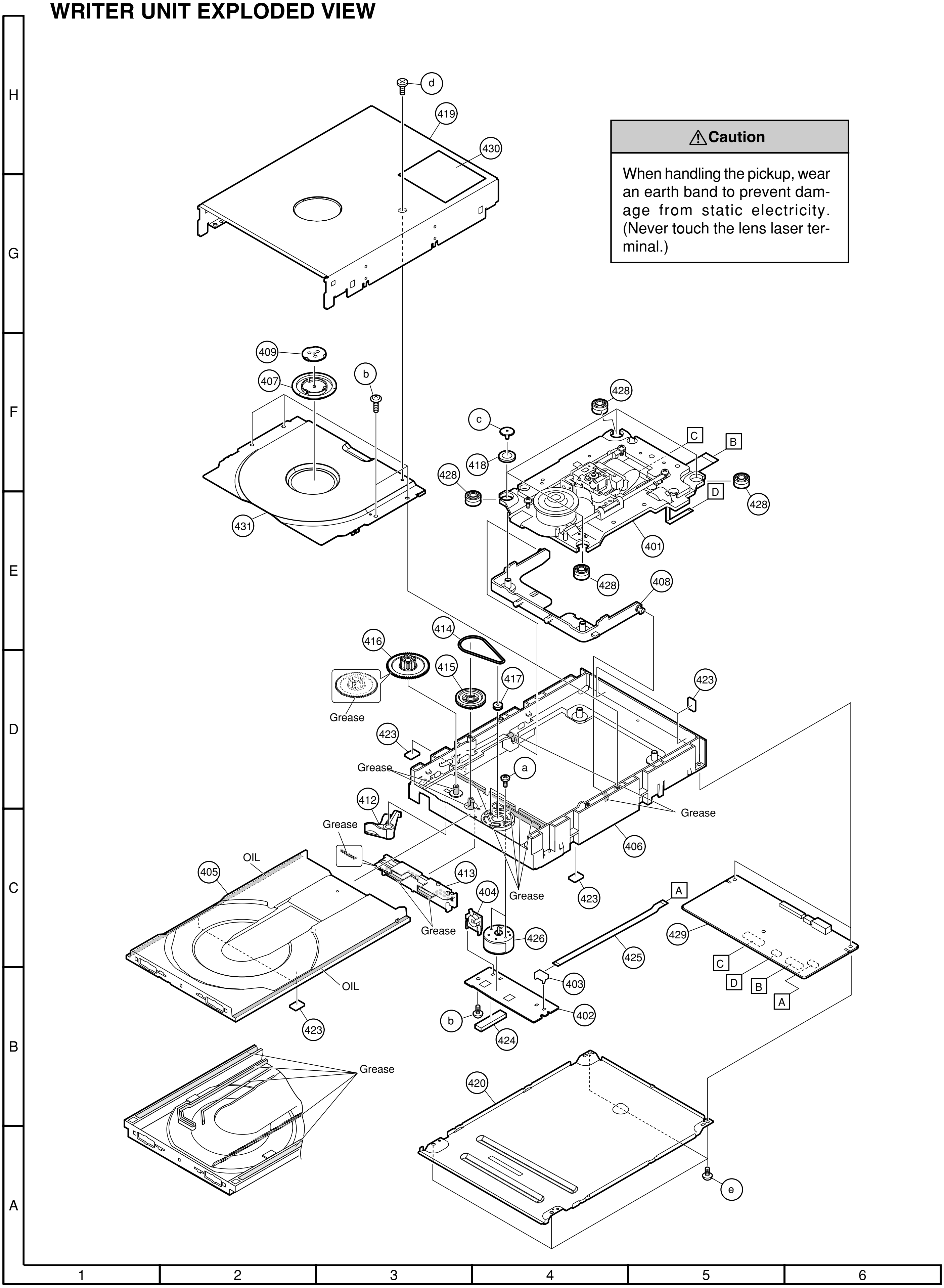
600-18

WRITER UNIT EXPLODED VIEW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D
C
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6
d
419
430
409
407
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c
418
428
C
B
D
401
408
416
414
415
417
423
Grease
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412
406
405
OIL
413
404
426
425
429
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402
424
420
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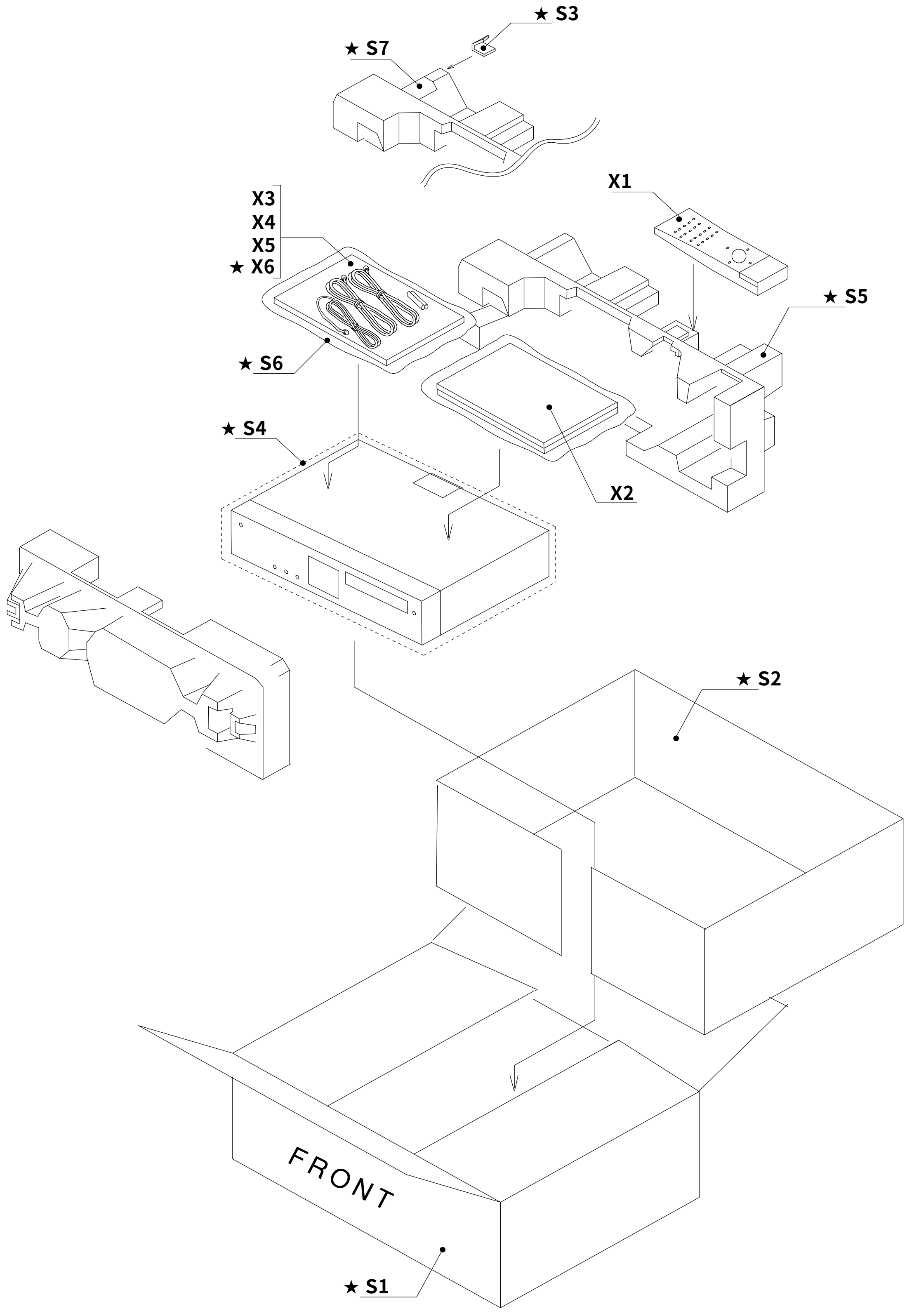
A

⚠Caution

When handling the pickup, wear an earth band to prevent damage from static electricity. (Never touch the lens laser terminal.)

12. PACKING OF THE SET


★ S3
★ S7
X1
X3
X4
X5
★ X6
★ S5
★ S6
★ S4
X2
★ S2
FRONT
★ S1

★Not Replacement Items

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SHARP CORPORATION
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